XH
.0851

vol. 18
1913

THE • NEW • YORK • BOTANICAL • GARDEN
PRO SCIENTIA ATQUE SALUTE POPULIQUE
1891
LIBRARY

VOL. XIX. NO. 1 SUPPLEMENT OF JANUARY 3, 1914

HORTICULTURE

INDEX TO VOLUME XVIII

LIBRARY
NEW YORK
BOTANICAL
GARDEN.

Illustrated articles are marked with *

Page

A

Affiliation, About..... 21
Affiliation once more..... 809
Agriculture, Report of the Secretary of for 1913 852
Albany Florist Club..... 498
American Association of Nurserymen. 11
American Association of Park Superintendents 219, 314
American Carnation Society..... .....138, 172, 314, 534, 867
American Gladiolus Society..... .....306, 338, 534, 904
—Gladiolus Society at Ohio..... 346
American Institute Exhibition....442, 666
American Rose Society..... .....41, 138, 403, 499, 667, 737, 868
American Rose Society. American Carnation Society. American Gladiolus Society 270
American Seed Trade Association..48, 406
American Sweet Pea Society:
—Sweet pea exhibition at Boston.... 65
The Exhibition. Massachusetts Horticultural Society's prize. Meeting. Banquet. Visitors. Report of 1913 sweet pea trials. A few notes on sweet peas.....73, 74, 75
Meeting at New York..... 737
Preliminary schedule, 1914..... 904
Amherst, Exhibition at..... 12
Angiopteris evecta..... 738
*Anglo-American Exposition..... 866
Anthracnose should be treated now, Apple tree..... 604
*Antirrhinums, New winter-flowering.. 329
*Anthericum Mandaianum..... 433
*Artemisia lactiflora.....625, 631
Azaleas at Ghent, New..... 140

B

Baltimore deal, A..... 351
Bar Harbor, Seen at..... 223
Bay trees, Wintering..... 600
*Begonia, A superb new..... 770
*Begonia Florence Nightingale, Tuberous-rooted 489, 495
Beverly, A visit to..... 40
Black spot on carnation foliage..... 367
Boston Flower Exchange..... 599
Boston Co-operative Flower Market dinner 615, 647
*Brigham greenhouses..... 654
British horticulture: 30, 40, 71, 135, 367, 431, 497, 601, 736, 811, 903 220
*Buddleia Davidii 393, 398
Bulb-digging machine, Prizes for..... 48
*Bunyard, Harry A..... 792
Business, A world-wide..... 722
Business troubles: 52, 83, 372, 447, 679, 710, 780, 852, 877, 913 468,

C

Canadian Horticultural Association 107, 219
*Carnation Matchless.....634, 761, 770
Carnation troubles:—Carnation and antirrhinum disease—Weak stems:—Carnation rust 899
Catalogs received..44, 57, 117, 144, 270, 339 374, 406, 485, 504, 537, 674, 739, 874, 906
Caterpillar rings, To destroy..... 720
Caterpillars that have troubled florists, Two..... 739
*Cattleya-Mossiae in California..... 176
Cattleya fly..... 220
*Cerastium tomentosum..... 161, 168
Chestnuts in Arnold Arboretum, Horse 139
Chicago fall exhibition..... 599, 665
Chicago Florists' Club..... 85
*Chicago plant-growing establishments, Three 224
Chicago notes: 21, 52, 84, 117, 148, 184, 239, 278, 347, 379, 410, 443, 475, 510, 542, 611, 642, 675, 710, 747, 782, 822, 878, 915
Chrysanthemums 817, 870

Page

*Chrysanthemum show at the University of Michigan..... 903
*Chrysanthemum Oconto 600
*Chrysanthemum display at Gerfield Park conservatory, Chicago.....693, 715
*Chrysanthemum William Turner..... 734
Chrysanthemums, Fumigating and spraying 7
Chrysanthemum novelties of 1914, Description of 810
Chrysanthemum show at Minneapolis Park greenhouses 736
Chrysanthemum Society of America.. 498 338, 568, 598, *599, 652, 670, 737, 772, 813
Cincinnati notes: 19, 52, 147, 276, 345, 411 440, 584, 615
Cincinnati personals 189, 239
City and Town planning conference.. 683
*Cleveland's exhibition hall..... 511
*Cleveland Flower Show.....735, 601
Club and Society Notes: 16, 41, 85, 107 121, 139, 172, 220, 346, 370, 435, 467, 500 552, 568, 599, 654, 672, 720, 737, 773, 813 869, 905
*Conference at Lake Minnetonka..... 403
Connecticut State Fair..... 369
Connecticut Horticultural Society..... 404 498, 598, 668, 772, 867
Cook County Florists' Association... .....283, 435, 867
Corporation, New: 53, 83, 116, 144, 180 233, 289, 313, 388, 409, 452, 484, 515, 584 606, 643, 672, 706, 738, 778, 811, 874, 913
Craig's, New and interesting things at 229
*Critchell, Mrs. C. E..... 598
*Crotons at Robert Craig Company's houses, Glimpses of..... 129
Crown gall on marguerites..... 401
Cut worms, Climbing..... 520

D

Dahlia and fruit exhibition at Boston 405
Dahlia and hardy perennial show at Philadelphia 405
*Dahlia exhibition at Dreer's, Riverview, N. J..... 499
Dahlia roots, Care of..... 500
*Davenport, A. M., Plant houses of.... 818
*Dendrobium thyrsiflorum 137
Denver legal controversy, A..... 509
*Dracaena Rothiana 701
*Duckham, Wm. H..... 812

E

Editorial:
—The June shows. Volume XVIII. The convention draws near..... 8
—A midsummer reverie. Quarantine issue misunderstood. Where New England benefits 38
—Overloaded lists. Society efficiency. The sweet pea 75 years ago..... 72
—Relaxation. A reminder and a duty. An aspersion..... 104
—Reckless credit giving. Parcel post menaced. Floral art in the flower show 136
—Affiliation. To safeguard parcel post. A good substitute for an experimental garden 170
—Convention number. Minneapolis colors. Choosing a president..... 208
—Doing our best. Theodore Wirth. The S. A. F..... 264
—Exactness in the prize schedule. A turn in the tide. At the parting of the ways 300
—The artist gardener. Real expansion. A promising vista..... 336
—Scentless musk. "Show me." Publicity 368
—A good motto. Missionaries for the trade. The convention's aftermath. 400
—Pollen stealing. House-cleaning. The golden road..... 430
—An overcracked nut. Vicious tactics. "United we stand."..... 464

Page

—Single-flowered chrysanthemums. The Rochester way. Profitless work. Get a move on..... 500
—Time to hustle. What shows are for. A profession with a great future 532
—A good time to buy. Entertainment and publicity. Rochester's hat in the ring 564
—Making common cause. Pernicious reformers. Helpful reading..... 596
—Cater to the public. Distribution. A New Year success..... 632
—Looking ahead. The Cleveland blizzard. HORTICULTURE'S way.... 664
—The big show plants. Two kinds of "shows." "Free Seeds"..... 700
—A valuable primrose. Public spirit; a big asset. Get busy..... 732
—Exit the chrysanthemum. Distribution of producers. Undeveloped resources 768
—Our birthday. The holiday trade. In union there is strength..... 808
—A new star. "Going some." "Safe and sane" Christmas. Anglo-American exposition 864
—Sunday gardening. Happy New Year. A gladiolus problem..,..... 902
Elberton Horticultural Society....500, 636
Elliot, The late Wyman..... 811
*Eremuri in hardy herbaceous exhibit. 1
*Eremurus himalaicus 857, 863
European ramblings 220
*Exhibit, An unique..... 229
*Exhibit of single chrysanthemums at Madison, N. J., by C. H. Totty..... 657

F

Fabrication, A 811
Fall planting 601
*Figs at express rate, Growing..... 301
Fires 706, 742, 883
Fire blight 739
Florists' Club of Philadelphia..... .....173, 346, 499, 772
Florists' and Gardeners' Club of Holyoke and Northampton..... 715
Florists' Hail Association..... 566
Florists' Club of Washington..... 370 *533, 543
Florists' stock, Notes on culture of:
—Getting ready for carnations. Greenhouse building. Miltonia vexillaria. Pansies for next winter. Young ferns for dishes. Sowing late annuals 5
—Care of violets. Begonia Gloire de Lorraine and Cincinnati. Rambler roses. Ferns from spores. Mignonette. Propagating ivies..... 37
—Bougainvilleas. Calanthes. Care of chrysanthemums. Cocos Weddelliana. Planting carnations. Planning for next winter..... 69
—Aspidistras. Camellias. Care of the dahlias. Sowing schizanthus. Winter flowering stocks. Watering late asters 101
—Cattleyas. Care of smilax. Mulching and feeding chrysanthemums. Poinsettias in pans. Propagating crotons. Repairing heating apparatus 133
—Callas. Cinerarias. Lilium Harrisii. Primulas for late winter and spring. Sweet peas for early winter flowering. Planting Roman hyacinths 165
—Bulb compost. Calceolarias. Carnations. Care of gardenias. Dendrobiums. Paper white narcissi 205
—Adiantums. Care of chrysanthemums, etc. Cyclamen for 1914. Show pelargoniums. Sowing pansies. Seed sowing 261
—Bouvardias. Care of carnations. Housing tender plants. Odonto-

1085
vol. 18
1913

Page

glossums. Propagating geraniums. Stevia 297
—Amaryllis for Christmas. Dracaena indivisa. Lilium candidum. Planting antirrhinums. Rambler roses. Potting evergreens..... 333
—Get your compost supply. Little shrubs for forcing. Making outside lily beds. Nephrolepis. Transplanting large palms. Starting fires 365
*—Cattleyas. Care of eucharis. Cyclamen. Hydrangeas. Solanums. Winter acacias and genistas....397, 398
—Care of carnations. Forcing Spanish iris. Hardy stock for spring sales. Poinsettias in pans. Timely propagating. Oxalis 429
—Irises. Lilium formosum. Otaheite orange. Orchids. Peonies. Stock plants of chrysanthemums..... 461
—Chrysanthemums. Campanulas. Lilies for Christmas. Planting phlox. The perennial border. Preparing for cold weather..... 493
—Ardisia crenulata. Care of mignonette. Care of violets. Cannas. Lorraine begonias. Outdoor roses. 529
—Azaleas. Callas. Chrysanthemums. Cinerarias. Sweet peas. Shamrocks for St. Patrick's day..... 561
—Dutch bulbs for outside. Ericas. Primulas. Orchids. Winter-flowering geraniums. Wintering fuchsias 593
—Antirrhinums. Lilium giganteum and multiflorum. Shrubs for greenhouse culture. Spiraeas (astilbe). Tulips. Lifting coreopsis for forcing 629
—Begonia Gloire de Lorraine. Allamandas. Freesias. Rhododendrons. Paper whites and Roman hyacinths. Protecting the hardy border..... 661
—Adiantums. Cyclamen. Lily of the valley. Orchids. Pot roses for Easter. Preparations for another season 697
—Care of carnations. Poinsettias. Gardenias. Schizanthus. Veranda boxes for winter. Verbenas..... 729
—Christmas azaleas. Lilies for Christmas. Manure for florists' crops. Propagating carnations. Soils for winter. Start freesias for Easter 765
—Care of cyclamens. Decorative greens. Flowering plants for Christmas. Oncidiums. Winter protection. Protecting pansies..... 805
—Calceolarias. Care of carnations. Marguerites. Pandanus Veitchii. Sowing fern spores. Protecting outside bulbs 861
—Care of sweet peas. Easter lilies. Mignonette. Orchids. Propagation. Starting bulbous stock 897
Flower market reports:
—Boston: 23, 55, 87, 119, 151, 187, 243 281, 317, 349, 381, 413, 445, 477, 513, 545 577, 613, 645, 681, 713, 149, 785, 843, 881 917
—Buffalo: 23, 55, 87, 119, 187, 243, 281 317, 349, 381, 445, 477, 513, 545, 577, 613 645, 681, 713, 749, 785, 843, 917
—Chicago: 23, 55, 87, 119, 151, 187, 243 281, 317, 349, 381, 413, 445, 477, 513, 545 577, 613, 645, 681, 713, 749, 785, 843, 881 917
—Cincinnati: 23, 55, 89, 119, 151, 187, 243 281, 317, 349, 413, 445, 513, 545, 579, 613 681, 713, 757, 843, 917
—New York: 25, 57, 89, 119, 151, 189, 245 317, 351, 383, 415, 447, 477, 515, 547, 579 615, 645, 683, 713, 751, 785, 845, 883, 919
—Providence 479, 547
—Philadelphia: 25, 57, 89, 199, 151, 187 245, 281, 319, 389, 415, 447, 479, 515, 547 579, 615, 645, 751, 787, 845, 881, 919
—St. Louis: 25, 57, 89, 121, 151, 189, 245 281, 319, 351, 383, 415, 447, 479, 515, 547, 579, 615, 647, 683, 713, 756, 787, 843, 881 919
—Rochester 23
—Washington: 25, 89, 389, 415, 479, 515 547, 615, 683, 715, 756, 787
Flowers, A talk on..... 865
*Fort Snelling, Minneapolis, Minn., Old Round Tower at..... 197
Forestry topics 356
Foxgloves flowering in March..... 433
Fruit and nut growers to meet..... 367
Fruit and vegetables, Outdoor:
—Preparing for next season's work. Potash manuring. Lime. Basic slag (phosphatic manure). Transplanting and pruning. Glove artichokes 465
—Cauliflower. Celery. Lifting the various root crops. Lifting the exhibition roots. Exhibition onions. 497
*—Exhibiting vegetables. Arrangement 562, 563
—Miscellaneous. Trenching.....530, 531

Page

Fruit and Vegetables under glass:
—Layering strawberries. Rivers' orange nectarine. Do it now..... 6
—Grapes shanking. Figs. Syringe or spray 39
—Pot up strawberries. The vegetable house. Pot trees and their care. Our friends..... 70
—Pot vines. Watering. Damping. Vacation 103
—Care of late vinery. Care of strawberries. Melons in the frames. Tomatoes 135
—Fruit rooms. Mildew..... 167
—Preparing for mushroom beds. Overfeeding. Borers. Summer pruning of grape vines..... 206
—King George melons. Late muscat grapes. Winter tomatoes. Bush beans. Turnips for forcing. Soil for winter 262
—Summer pruning peach trees. Prepare to pot up trees. Feeding strawberries. Making up mushroom beds. Melons for Christmas..... 298
—The fig house. Melons cracking. Winter cucumbers. Spawning mushroom beds 334
—Shading tomatoes. Lettuce. Bush beans. Gathering late apples..... 366
—Care of late vinery. Prune pot trees. The first frost. Crowding plants in the fruit houses. Winter cucumbers. Parsley 462
—Care of strawberries. Ripen up pot vines. Figs. The soil. Falling leaves. Planting melons..... 494
—Repotting fruit trees..... 530
—Root pruning. Lettuce..... 565
—Pruning vines. The heating pipes in cold houses 594
—Cleaning the early vinery. Protecting the soil from freezing. Asparagus and rhubarb for forcing. Christmas melons 630
—Pruning peach trees. Protect strawberries. Late grapes hanging. Vine eyes for propagating. Setting tomatoes 662
—Cleaning the early peach house. Starting pot vines. Forcing rhubarb and asparagus. Prepare for pot trees. Protect the outside walls 698
—Start early vinery. Early peach house. Strawberries. Sow more melons 732
—Making a vine border. Christmas melons 766
—Making a peach border. Tying peach trees. Light. Turnip tops.. 806
—Planting vines. Planting peach and nectarine trees. Stem troubles of melons 862
—The pot-tree house. Peach buds dropping. Knots. Fig houses. King George melons. Winter packing. Happy New Year..... 898
*Funkia lanceolata albo-marginata.....725, 733

G

Gardener and his field..... 584
Gardeners, Ideal 769
Gardener's place, The.....604, 742
Gardeners' and Florists' Club of Boston: 85, 370, 402, 434, *466, 534, 667, 704 772, 867
Gardeners, Original 734
Gardenia leaves, Spot on..... 40
Gardenia buds dropping 520
Gladiolus farm, A Massachusetts..... 222
Gladiolus questions, Some 223
Gladiolus show at Boston..... 222
Glass market, The 194
Greenhouses, building or contemplated...30, 53, 94, 126, 158, 179, 252, 289, 308, 358, 390, 422, 454, 486, 522, 554, 586, 620, 690, 722, 738, 794, 851, 890, ... 926

H

Hardy flower garden, About the..... 337
Hoodooed? 89
Horticultural project in Boston, A... 568
Horticultural Society of New York.....41, 498, 633
Horticultural Society of Chicago exhibition 346
Horticultural whys and wherefores... 814
*Hydrangea Mme. Mouillere 75
*Hydrangea Mlle. de Tremault..... 293
*Hydrangeas, New French 870
*Hydrangeas, Two fine 597
Hydrocyanic gas for mealy bug and black fly 105

I

In Wonderland: the unseen artists... 209
International Flower Show..... 772

Page

K

"Knocker," The 906
*Kentias in houses without benches... 338
Kroeschell heaters for London..... 143

L

Ladies' S. A. F.....218, 772
Lancaster Co. Florist Club.....299, 434, 598, 668, 772, 904
Lenox Horticultural Society..... 315, 566, 634, 813
Light to greenhouse culture, Relation of 401
Lilac question, The 597
Lilacs, Grafting 769
Lilies, Defective 180
Lily of the valley, Care of..... 338
*Lilium myriophyllum, A field of the new hardy 33, 40
*Lilium Sargentiae 169
Lily, Another new..... 144
Lockjaw, Gardeners and.....699, 734, 776

M

Madison, N. J., Fall Show..... 638
Maryland-Delaware Horticultural Societies 172
*Maryland Week 778
Massachusetts Agricultural College..... 314, 604
Massachusetts Horticultural Society.....566, 633, 811, 883
Medford Horticultural Society..... 404
Michell's, The visit to..... 319
Michell's, Dahlia show at..... 452
*Michell Company's gardens, Visitors at 335
*Michell trial grounds at Andalusia, Pa. 369
Miller retires from the bulb business, E. S. 442
*Million dollar pier, Atlantic City, N. J. 520
Minneapolis Florist Club.....41, 668
*Minneapolis Parks 10
*Minneapolis Park conservatories, View of fall show in..... 815
*Minneapolis Park Board greenhouses. 117
Minneapolis, prizes unclaimed at.... 435
*Minneapolis, Street in..... 97
*Minneapolis convention group.....310, 311
Minneapolis News:
*—Minneapolis Parks, Lakes and Boulevards, Public buildings of the Twin Cities..... 42
—John Young at Minneapolis..... 78
*—Views in Minneapolis Park system.. 215
*—Portraits of some busy men at Minneapolis 216, 217
—Minneapolis Florist Club. *Portraits of some Convention ladies. *Minneapolis State Capitol..... 219
Minnesota Horticultural Society....21, 110
Minnesota State Florists' Association. 812
Missouri Botanical Garden..... 43
Mott's notes by the way, Walter: 137, 180 274, 347, 406, 453, 470, 522, 602, 706, 820
Musk plant odor..... 401

N

Nassau County Horticultural Society. 283, 403, 537, 636, 867
National Association of Gardeners... .....213, 498, 598, 647, *668, 904
*Nephrolepis tuberosa plumosa..... 531
New Bedford Horticultural Society... 638
New Hampshire toils and pastimes... 600
New Jersey Floricultural Society..... .....402, 466, 566, 772
New London Horticultural Society... ..... 346, 498
Newport Horticultural Society..... .....11, 214, *434, 425, 720, 812
New York Florists' Club..370, 534, 667, 812
New York notes..... 643
New York State Fair..... 233
New York State Federation of Floral Clubs 346, 402
News Notes.....25, 52, 78, 79, 115, 147, 176, 189, 223, 237, 239, 277, 283, 345, 377, 406, 441, 452, 486, 504, 511, 540, 541, 542, 573, 609, 611, 641, 672, 677, 706, 709, 715, 738, 746, 778, 780, 837, 878, 890, ... 913
North Shore Horticultural Society... 314
Number, please?..... 736

O

Obituary:
—Akehurst, Charles, 347. Arnold, Joseph Emory, 454; Avery, Mrs. 758
—Belcher, Francis E., 279; Bender, Wm. Paul, 411; Binning, Christian, 554; Bishop, James, 411; Blatchley, Chas. W., 758; Brodrib, John, 672; Byer, John B., 586.
—Chambers, John, 411; Clarke, Joseph, 94; Crawford, Charles, 308; Crawford, Wm. C., 794.

Page

—Dirwanger, Albert, 672; DeWolf, John, 758.
—Elias, William, 484.
—Francis, Harry, 905; Freduchson, Jacob, 30; Frohberg, Richard, 905.
—Galloway, Wm., 722; Geist, Justus, 484; Gleason, Joseph M., 105; Goble, Francis, 835; Goerisch, Mrs. Otto, 484.
—Hains, Charles, 44; Hoag, C. L., 722; Holtz, Wm. F., 643; Hooker, Charles M., 308; Hutchison, James, 44.
—James, Harley, 758; James, W. T., 586; Jardine, Thomas, 794.
—Kase, Paul, 279; Kelsey, Mrs. F. W., 44; Kerr, Jonathan W., 279; Kinkaid, Robert, 586; Krekeler, Mrs. F. L., 620; Krombach, Chas., 308.
—Lee, Hugh, 279; Lewis, J. C., 94; Lorman, Sr., Wm., 484.
—Maule, Wm. Henry, 347, *372; McGillivray, D., 890; McGovern, Patrick, 105; McWilliam, George, 454, *484.
—Newell, Mrs. John, 44; *Nugent, Sr., John B., 372.
—O'Connor, Timothy, 905; Oliver, George R., 500.
—Perry, A. D., 454; Pierce, Edward L., 586; Pierce, M. E., 411; Ponnet, Constance, 411.
—Reynolds, C. Leslie, 240; *Roehrs, Julius, 105, 543; Rothar, Adam, 672.
—Sawvel, W. H., 372; Schumann. Edward, 44; Schustermann, A., 554; *Sibley, Samuel, 44; Smith, Mrs. Wm. R., 94; Stieffel, Louis, 454; Sutton, E. B., 94; Sydenham, Robert, 144; Strodtbeck, John George, 347.
—Thomas, Herbert C., 794; Trochsler, Mrs. Henry, 484.
—Uihlein, Mrs. E. G., 30; Upton, Edward, 794.
—Warendorff, Mrs. F., 835; Wiegand, Frank, 30; Williams, J. C., 905; Williams, John Spencer, 454; Winters, Pearl V., 890.
—Zetter, Frank, 347.
*Odontiada Charlesworthii 401
Oncidium splendidum 870
Onions for winter forcing..... 470
*Orchid group at Holland House Show, London 443
Ochids, Regulations for staging..... 905
Orleans, Mass., Seen at..... 40

P

Panama-California Exposition freight rates on exhibitions..... 599
Pansies, Disease of 7
Patents granted: 57, 143, 179, 289, 358, 390 452, 486, 688, 722, 890
Patent decision, A..... 552
*Perennials, Two useful garden..... 817
Personal: 25, 57, 80, 121, 149, 185, 240 279, 351, 378, 415, 447, 468, 473, 521, 542 574, 611, 654, 683, 711, 740, 787, 792, 840 845, 878, 914
Pests, Control of two elm tree..... 140
*Phalaenopsis Lueddemanniana 557, 565
*Phalaenopsis Aphrodite 893, 900
Philadelphia notes: 21, 53, 89, 116, 148 183, 238, 279, 379, 415, 475, 643, 710, 738 781, 874, 915
Philadelphia sweet pea show..... 15
Philadelphia fall show 599, 633
Pittsburgh Florists' and Gardeners' Club 566, 668, 812
*Plant laboratory at the College of Pharmacy, University of Minnesota 457, 465
Plants under new names, Old..... 773
Poetry:
—The Golden Rod 401
—Fireplace Days 452
—The First Snow Fall..... 736
Pointing the way..... 809
Pot plant farm, A..... 470
*Polypodium Mandaianum 432
*Portland, Ore., show.....735, 813
Poughkeepsie show 736
Publications received: 44, 105, 158, 223, 357, 388, 411, 522, 620, 706, 756
Publicity, Up-to-the-minute..... 664
Purifying the lists..... 433

Q

Quarantine decision No. 4..... 357
Quarantine, Potato 452
Quarantine, Hearing on potato..... 829

R

Rain, The meaning of an inch of..... 794
Recess, During:
—New York and New Jersey Association of Plant Growers. New York Florists' Club. *A merry dozen..... 20

Page

—Gardeners' and Florists' Club of Boston. Lancaster County Florist Club. St. Louis Florist Club. Cincinnati Florists' Society..... 106
—Fun at Detroit. Notes..... 153
—*The Washington-Baltimore outing. 184
—Florist Club of Washington entertained. Oyster Bay Horticultural Society. Buffalo Florists' Club. *Arcade bowling alleys, Minneapolis. 221
—Outing Westchester and Fairfield Horticultural Society. Lenox Horticultural Society 278
—N. Y. and N. J. Association of Plant Growers 308
—Chicago Florists' Club..... 351
—J. Breck & Sons' employees..... 406
—Bowling 521
—*Oyster roast at Washington, D. C.. 688
—A Detroit outing..... 688
Refrigerators, Popular 149
Regulations governing plant importations 821
Retail florists, Of interest to:
—System 52
—House cleaning 84
—Ice chest talk..... 116
—The large design..... 148
—The funeral spray. Florists' Telegraph Delivery 184
—A young lady's summer outing..... 238
—*A model flower store..... 278
—Florists' Telegraph Delivery Association 474
—Opening of Galvin's New York store. Wedding notes. A Penn advertisement 510
—A Philadelphia opening..... 542
—Home merchants should never have dull times 610
—Successful advertising of a retail florist 834
—A benediction 835
—A model flower store..... 836
—Steamer departures: 18, 50, 82, 114, 146, 182, 236, 276, 312, 344, 376, 408, 440, 472, 508, 540, 572, 608, 640, 676, 708, 745, 780, 830, 876, 913.
—New Flower Stores: 18, 52, 83, 146, 182, 236, 276, 312, 344, 376, 409, 440, 472, 508, 540, 572, 608, 640, 679, 708, 745, 780, 830, 876, 913.
—Flowers by telegraph: 19, 51, 83, 115, 147, 183, 237, 277, 313, 345, 377, 409, 441, 473, 509, 541, 573, 609, 641, 677, 709, 746, 781, 833, 877, 914.
Rhode Island-Greystone sweet pea exhibition 139
Rhode Island Horticultural Society 466, ... 720
Robinias and summer magnolias..... 43
Rochester flower show abandoned... 511
Rochester exhibition..... 701
Rose establishment, A model..... 679
*Rose garden of Mrs. A. W. Tedcastle, Milton, Mass..... 410
Rose, A new..... 566
Rose Mme. Cecil Brunner..... 20
*Rose Prince E. C. D'Arenberg..... 770
Rose test gardens..... 598
Roses grown outside, Propagating... 600
Roses under glass:
—Mulch for the outside roses. Weeds around the place. Painting. Putty. The sun and the pots..... 7
—Burning of the foliage on roses. Tying the young Beauty plants. Manure for the early mulches..... 71
—Roses for flowering outside. Mulching. Disbudding. Distance for Beauties. Good management. A word to beginners.....102, 103
—A contrast. Mildew. Black spot on Beauties. Lime. Liming the benches Greenfly. Commercial fertilizers... 134
—The boilers. Grates. Crimson clover. Cutting from the young plants. Pinching for long stems. Vacation time. The pots..... 166
—Side ventilation. Ventilation in general. Thunderstorms. Treating wet plants. Cost accounting. The Convention 207
—Shipping the cut blooms. Getting a name. Wax and tissue papers. Tying the roses in boxes. Among the young plants..... 263
—Side ventilators in September. Syringing. Mulching. Lime. Using cracked ice. Burning of the foliage after mulching..... 299
—Cutting roses. Ice. The supply of bone meal. Tobacco stems. Sod for next season's potted plants... 335
—Weeds around the houses. The coal bin. Tarring roofs of worksheds. The night temperatures..... 367
—Blackspot. Timing the crops. Tying. Tying and red spider. Liquid manure 399
—Tying the teas. The rainy weather of the past week. The cold nights Sulphur on the steam pipes. Fumigation 431

Page

—Cutting. Packing. Mulching the early houses. The proper height to cut Beauties. The yellow leaves. Feeding the plants with manure rich in nitrogen. Repairing the broken glass..... 463
—The outside roses. The sod lot. Old greenhouse soil. Tobacco stems in the walks. Using up the old boards, etc. Ammoniacal-copper-carbonate mixture. Care of plants to be used for propagating wood..... 495
—Liming the benches. The temperature at night. Sulphur on the pipes. The sod heaps. The partly cloudy and partly sunny days..... 533
—Tying. Other plants in the rose houses. Temperature for cloudy days 563
—The propagating house and sand. The flower shows. Covering the soil for use in winter. Notes in general 595
—Ventilation on windy days. Fumigation. Syringing after fumigation. Shaking the plants after syringing. 631
—Grading for new houses. Mildew. Keeping the plants resistant. Watering in cold wet weather. Lime and sulphur. Lining the boxes. The winter's coal..... 663
—Holiday time. Holding the plants back. Wood for propagation. The fire in the propagator..... 699
—The sod heaps. Picking up the dead leaves. The Christmas crop. Heavy wrapping paper. Liquid manure.. 731
—Disbudding. Syringing. Shaking the plants. Ordering the new pots. Liming the benches. Supply of bone meal. Stock houses..... 767
—The Christmas retail trade. Greens with the flowers. Plants as a side line. Care of shaded houses. Soot. The inventory..... 807
—Fumigating. The New Year. Planning and planting. The propagator. Care of propagating wood..... 863
—The propagating bench. Sand. Shading the houses. Bottom heat. Firming the sand..... 901
Rutherford, N. J. notes..... 220

S

Salvia, A hardy..... 705
Seed trade:
—Dutch and French bulb prospects. Notes 16
—Crop conditions. San Francisco in 1915. Proposed uniform exhibition booths 48
—California seed crops..... 80
—Crop reports. Good crops in South Dakota. Notes..... 112
—Notes 144, 233
—Cabbage and turnip crop short. Pea situation. Beans. Corn. Tomatoes. Peas. California seed crop. New seed stores.....273, 274
—Estimates. Beans, corn and cabbage. European root crops. In the west 342
—Notes 374
—Peas. Beans. Corn. Small seeds. Notes 438
—Notes 504
—The Maule business. New enterprises. Crop notes. Tariff changes 538
—Wholesale Seedmen's League. New Zealand peas. Crop reports from Denmark. Notes..... 570
—Fixing values. Seed beans. Some surpluses. Onions and potatoes. Notes 606
—The potato prospect. Seed beans. Canners' Convention. "Future" peas. Notes 674
—German notes. Notes..... 742
—Notes 778, 829, 874
—New Zealand garden peas..... 910
Snapdragons, Winter-flowering..... 336
Society of American Florists:
—Program of the 29th annual meeting and exhibition at Minneapolis. Officers 9
—Ladies' S. A. F. General sports program 10
—Space for convention..... 41
—Trade space reservations..... 85
—Boston to Minneapolis. Philadelphia to Minneapolis..... 138
—29th annual meeting and exhibition. 172
—Program of the 29th annual meeting and exhibition. *National Guards Armory. Portraits of officers..210, 11, 12, 13..... 214
—Floor plan of exhibition hall..... 214
—Opening session. President's address 265
—Secretary's reports..... 266
—*Outdoor plant exhibit..... 266A
—Treasurer's report. Report of Wash-

Page

ington representative. Reports of committees 266B
—Boston the next meeting place. President's reception. Wednesday forenoon session. Nomination of officers. Wednesday afternoon session. International Flower Show 266D
—Report of judges. Discussion of President's address. Thursday's sessions. Election of officers. Trade exhibition. The trip from Boston.. 268
—St. Louis convention delegates. Ladies' S. A. F.....
—Concluding reports. Report of committee on final resolutions. The bowling contests. Here and there.. 302
—The outdoor exhibit. *Exhibit of Aphine Mfg. Co..... 303
—Report of School Garden Committee 369
—Word of thanks and appreciation... 404
—Department of plant registration 543, 566, 672, 705, 772, 813,..... 904
*Sorbaria arborea.....589, 594
Southampton Horticultural Society 173, ... 283
Sports and reversion..... 900
St. Louis Florist Club.....85, 138, 219 566, 705, ... 867
St. Louis Flower Show..... 41
St. Louis County Growers' Association 41
St. Louis notes...51, 277, 313, 410, 441, 515, 575, 610..... 833
Standards of purity and seed laws?.. 174
Sub-irrigation and drainage, A new method of..... 829
Sweet peas..... 168

T

*Table decoration, First prize..... 525
Tarrytown Horticultural Society..... 666
Telegraph Delivery Association Florists' 270
Terrace, Grassing a..... 48
*Totty novelties, Two..... 865
Trees and tree seeds, Importation of.. 337
*Tribute to father, A..... 575
*Tulip bed, A..... 738

V

*Vanda Sanderiana..... 361
Vegtables in cold frames, Starting.. 308
Vincent dahlia show.....537, 574

W

*Waban Rose Conservatories' Employees' Field day..... 638
Warning 903
Washington, D. C., Storm in..... 173
Washington notes...20, 84, 374, 475, 520, 610, 642, 678, 715, 783..... 821
Water requirement of plants..... 600
Waverley, Mass., A glimpse of..... 474
Wedding, A silver..... 919
*Weed extermination.....888, 924
Westchester and Fairfield Horticultural Society.....219, 403, 568, 665, 868
Western New York Horticultural Society 812
*White House bridal basket.....797, 809
*Wirth, Theodore..... 257
Worcester County (Mass.) Horticultural Society..... 667
Word, A kind..... 869

Y

*Young, John..... 378

THE FOREGOING INDEX REPRESENTS SIX MONTHS' CONTENTS OF "HORTICULTURE." COST TO SUBSCRIBERS FOR THAT PERIOD, FIFTY CENTS! TELL YOUR FRIENDS ABOUT IT. PRETTY GOOD MONEY'S WORTH?

HORTICULTURE

Vol. XVIII. JULY 5, 1913 No. 1



EREMURI IN HARDY HERBACEOUS EXHIBIT

Shown by Mt. Desert Nurseries at Horticultural Hall, Boston.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

The HIT
OF THE SEASON

In the past season every first-class flower store the country over had calls for bouquets made up with a certain small pink rose. In some stores it was sold under the name of

MIGNON in others as SWEETHEART

The real name of the rose is

MME. CECIL BRUNNER

and we believe we supplied all the cut buds except for one lot grown in the east from plants obtained from us last year. We shipped cut buds to New York, Chicago and many other cities. The rose was the hit of Fifth avenue and its fame spread throughout the country, resulting in a demand for the buds in every store that caters to the good trade. It is in great request for corsage bouquets, Colonial bouquets, boutonnierns, etc. Appreciating that because of our distance from the largest markets we can not handle the demand for cut buds, we have prepared to supply young plants to growers who know a money-making novelty when they see it.

20,000 Plants Now Ready in Fine Condition

2½-in. pots, $10.00 per 100; $80.00 per 1000. 3-in. pots, $15.00 per 100; $120.00 per 1000

E. W. McLELLAN CO., Inc.

Nurseries at Burlingame, Cal.

18-20 Lick Place, SAN FRANCISCO

Bedding Plants

		doz.	100
Dracaena Indivisa	6 in.	$4.00	$30.00
Rex Begonias	2½ in.	.50	3.00
Fuschias	2½ in.	.35	2.50
English Ivy	2½ in.	.40	3.00
English Ivy	3 in.	.75	5.00
Salvia Splendens	2½ in.	.40	3.00
Salvia Clara Bedman	2½ in.	.40	3.00
Asparagus Sprengeri	2½ in.	.40	3.00

Extra fine stock, strong healthy plants. Perennial Flower Seeds. Field Seeds.

James Vick's Sons

ROCHESTER, N. Y.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼ in. pots, $3.00 per 100; $25.00 per 1000; 500 or more at 1000 rates.

CHRYSANTHEMUMS

All the best varieties for bush form Pot plants, strong plants from 2½ in. pots, $3.00 per 100. Cash with order.

FRANK OECHSLIN, - 4911 Quincy Street, Chicago, Ill.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock

Wyncote, Pa.

GERANIUMS

Our collection of Standard Varieties of Geraniums stands second to none in the country; it contains over one hundred varieties which represents the very best that there is in Geraniums. There is none better. Our stock is the largest and best we have ever had and the prospects are that we shall have an enormous supply for next season's shipment. We are ready to book orders, confident we will be able to give satisfaction in every way. **250,000 Good 2-in Plants Ready for Shipment Now**; $2.00 per 100, $18.50 per 1000.

We invite a critical examination of our stock. Our catalogue is recognized as the **Geranium Blue Book.** 400 Varieties are Accurately Described. Free to the Trade.

SMILAX. Good, strong 2-in. stock, $2.00 per 100, $17.50 per 1000; seed-bed plants, strong, $1.00 per 100, $8.50 per 1000.

VEGETABLE PLANTS

CELERY. Golden Self-Blanching, 40 cts per 100, $2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, $1.00 per 1000. **PARSLEY.** 25 cts. per 100, $1.25 per 1000.

CABBAGE. All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, $1.00 per 1000.

CASH WITH ORDER

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

ROSE STOCK

Mrs. Geo. Shawyer and Milady: $30.00 hundred $250.00 thousand. Pink and White Killarney and Richmond, grafted $20.00 hundred; own root $10.00 hundred.
My Maryland, Lady Hillingdon and Bon Silene, own root $10.00 hundred. Sunburst, $20.00 hundred. American Beauty, $12.00 hundred.

The above stock all from 4" pots and warranted to give satisfaction. A plain unvarnished tale as advertisements go but we always stand back of our goods.

CHAS. H. TOTTY

MADISON, - - - - - N. J.

LIST OF ADVERTISERS

Page
Advance Co.....31
Albany Cut Flower Exchange....24
Allen, J. K.....24
Anderson, S. A...19
Aphine Mfg. Co..15
Aschmann, G.....14
Atlanta Florist Co. 22
Ayres Co., S. Bryson 17
Badgley, Reidel & Meyer 24
Barnard, W. W. Co. 17
Barrows & Son... 4
Bayersdorfer, H. & Co.....21
Bay State Nurseries 14
Bloomingdale's ..18
Bobbink & Atkins 14
Boddington, A. T.13
Bolgiano & Son, J. 17
Boston Florist Letter Co.....22
Braslan Seed Growers Co.....17
Breck, J. & Son.17
Breck - Robinson Nurseries 14
Breitmeyer's, J. Sons 18
Bryan, Alonzo J. 2
Burpee, W. A. & Co. 17
California Florist 19
California Seed Growers' Asso..17
Carbone 19
Chicago Carnation Co.....22
Chicago Flower Growers' Asso...22
Childs, John Lewis 16
Clarke's, D., Sons.18
Clark, Everett B. Seed Co.....17
Cooke, Geo. H....20
Cowee, W. J.....24
Craig, Robt. Co.. 2
Dards 18
Davidge, Wm. M.15
Dawson, H. S....14
Dorner & Sons Co. 2
Dreer, H. A.....31
Dunlop, John H.19
Dysart, R. J.....25
Eastern Nurseries 14
Edwards Folding Box Co.....22
Elliott, W. H.....12
Elliott's W., Sons.16
Eppstein, Julius..19
Ernest, W. H.....30
Esler, J. G.....31
Eyres 18
Fairfield Landscape & Nursery Co.....14
Farquhar, R. & J. & Co.....12-17
Ford, W. P.....24
Forrest, Frank H.19
Fottler, Fiske, Rawson Co.....17
Froment, H. E...24
Framingham Nurseries 14
Galvin, Thos. F..19
Gasser, J. M. Co.19
Goodsell, P. H...14
Grey, T. J. Co....17
Gude Bros. Co...18
Hail Association..31
Hall & Robinson.19
Hammond Paint and Slug Shot Works 15
Hart, Geo. B.....22
Heacock, Jos..... 2
Heinecken, Otto..17
Henderson, A..... 2
Hess & Swoboda.18
Hews, A. H. & Co. 31
Hilfinger Bros....30
Holland Nurseries 14
Holm & Olson....18
Horan, E. C.....24
Jacobs S. & Sons.31
Johnson, J. Oliver 16
Johnston Bros....19
Kasting, W. F. Co. 25
Keller, J. B. Sons.18
Kervan Co.....24
King Cons. Co...30
Kramer, F. H....19
Kroeschell Bros..31
Kuebler, W. H...24
Lager & Hurrell..12
Lange, A.....19
Lemon Oil Co....15
Leonard Seed Co.16
Leuthy, A. & Co.. 4
Loechner & Co...12
Lord & Burnham Co. 32
MacMulkin, E.....19
May & Co., L. L.19
McConnell, Alex..18
McCarthy, N. F. Co. 25
McCray Refrigerator Co.....20
McCullough's Sons Co., J. M.....22
McHutchison & Co. 4
McKenzie, John... 2
McLellan, E. W. Co. 2
McManus, Jas....24
Michell's Seed House 16
Michigan Cut Flower Ex.....22
Millang, Chas.....24
Miller, E. S.....17
Montreal Floral Exchange 24
Moore, Hentz & Nash 24
Morris & Snow Seed Co.....17
Murray, Samuel..18
National Nursery man 14
Niessen, Leo Co..22
Oechslin, Frank.. 2
Ouwerkerk, P.....14
Palmer, W. J. & Son 18
Park Floral Co...18
Parshelsky Bros..31
Pelicano, Rossi & Co. 19
Penn the Florist.19
Pennock - Meehan Co. 23
Pierce Co., F. O..31
Pierson, A. N....14
Pierson, F. R. Co. 4
Pino-Lyptol Chemical Co....15
Plant Food Co., 20th Century...15
Poehlmann Bros. Co. 22
Pollworth, C. C..18
Pulverized Manure Co.....15
Quaker City Machine Co.....31
Reed & Keller....24
Reinberg, Peter...22
Rice, M. Co.....19
Robinson Co., H. M. 24
Roehrs, J. Co.....12
Roland, Thomas..12
Rolker, A. & Sons 4 30
Rosery, The.....18
Sander & Son.....12
Scott, John..... 2
Schling, Max.....19
Sharp, Partridge & Co.....31
Siggers & Siggers 31
Sheridan, W. F...24
Siebrecht, Geo. C.24
Skidelsky, S. S. & Co.....17
Smith, P. J.....24
Smith & Co., E. D. 4
Smith, W. & T. Co. 14
Smyth, Wm. J...18
Sprague, J. H....12
Stearns, A. T. Lumber Co.....31
Syracuse Pottery Co. 30
Totty, Chas. H... 3
Thorburn, J. M. & Co.....17
Traendly & Schenck 24
Valentine, J. A...18
Van Assche, F....31
Vick's Jas. Sons.. 2
Vincent, R., Jr., & Sons Co..... 3
Wants, For Sale..30
Ward, R. M. & Co. 4
Weeber & Don....17
Welch Bros. Co...25
Whittier & Co., W. B.....14
Wilson, Robt. G..18
Wood Bros..... 2
Woodrow & Marketos 24
Young & Nugent.18
Zangen, O. V.....17
Zinn, J. A.....19
Zvolanek, Ant. C.17

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 26, 27, 28, 29

ASSETS AND LIABILITIES

A good field of Giganteum in Japan is an asset to the consumer who gets the bulbs—a bad field is a big liability. It don't matter how cheap you buy bad bulbs—you lose just the same. Therefore the first requisite in buying lily bulbs is to get stock from the best fields—when you are sure of that you may dicker on price if you want. Good fields bring good prices, naturally, so don't ever let a salesman sell you lily bulbs just because they are cheap. It never pays. Horseshoe Brand Giganteum come from the very best fields in Japan—when you insist upon that brand you are safe in dickering on price, but otherwise you are skating on thin ice. Many growers know by experience which has cost them money—let others profit by their experience. When you buy lily bulbs ask for Horseshoe Brand—no other brand will average higher. Send for catalog with prices.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of	100	Size	7-8	at	$ 6.00 each
"	100	"	7-9	at	8.50 "
"	340	"	7-8	at	21.00 "
"	300	"	7-9	at	21.00 "
"	250	"	8-10	at	25.00 "
"	180	"	9-11	at	22.00 "

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

We offer the following stock in fine shape for late trade at watering places and other summer resorts, etc. Stock is in first-class condition.

HYDRANGEA OTAKSA

In bud and bloom for immediate use.

We have a fine stock of potgrown plants in 6-in. and 7-in. pots, just beginning to show color, in fine shape. 50c. and 75c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, $2.00 and $3.00 each; extra large specimens in half-barrels at $5.00 and $7.50 each.

GERANIUMS in bud and bloom, extra fine stocky plants in 4-in. pots,—S. A. Nutt, Double Grant, Jean Viaud; also Rose geranium. $8.00 per 100.

CANNAS,—Beaute de Poitevine, Pierson's Premier, Mlle. Berat, L. Patry, etc. Extra heavy plants in 4-in. pots, $5.00 per 100.

CALADIUM ESCULENTUM. Very strong started plants in 5-in. and 6-in. pots, $1.50 per dozen.

HELIOTROPE. 2¼-in. pots, $3.00 per 100; extra strong plants in 3½-in. pots, $6.00 per 100.

SALVIA. 2¼-in. pots, $3.00 per 100.

NASTURTIUMS. 3-in. pots, $4.00 per 100.

COLEUS. Firebrand and assorted varieties in 2¼-in. pots, $3.00 per 100.

MARGUERITES, or **DAISIES,** in bloom. 2¼-in. pots, $4.00 per 100.

LOBELIAS. 2¼-in. pots, $3.00 per 100.

ENGLISH IVY. Large stock of extra strong plants in 3½ and 4-in. pots, good value at $10.00 per 100.

EGG PLANTS. New York Improved. 3½-in. pots, $4.00 per 100.

DRACENA INDIVISA. Very large specimens for center of large vases. Plants 3 ft. high, $2.50 each. Strong plants in 5-in. pots, $3.00 per dozen.

ASPARAGUS PLUMOSUS NANUS. Extra heavy plants in 3½-in. pots, $8.00 per 100.

FINE FERNS FOR SUMMER DECORATION

For Immediate Use.

We have a fine stock of the following varieties in the sizes offered.

ELEGANTISSIMA, 6-in. pots, 50c. each; 8-in., $1.00 each.

HARRISII form of Bostoniensis—the best of all the plain-leaved type,—8-in., $1.00 each; very heavy specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

WHITE KILLARNEY, PINK KILLARNEY, RICHMOND, LADY HILLINGDON, and KILLARNEY QUEEN

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., Tarrytown-on-Hudson, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - **ADRIAN, MICH.**

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries, Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Getting Ready for Carnations

Cleaning out and refilling benches and beds, with the accompanying hard labor, fortunately do not come under the heading of every-day work. It does not pay to put off the start until the last minute. There is sure to be some repairing of beds or benches needed, and usually we find more than we expected. Clean up thoroughly under the benches, in the walks, in fact from end to end. If the house is entirely empty it is a good plan to fumigate it thoroughly with sulphur before replanting, but be sure there are no plants in the house which you want to keep. This is perhaps the strongest point in favor of detached houses. You can fumigate one house without doing the same to the whole place. When refilling the beds put a layer of half-rotted cow manure on the bottom about one inch thick. Some growers object to this, but we have always found it a good practice. On top of this fill in the soil. Level the soil as you fill the beds and see that the beds are well filled along the edge. If leveled, the soil dries out better over the whole bed and can be watered evenly when wanted for planting.

Greenhouse Building

Whenever the demand for any commodity exceeds the supply thereof, it naturally follows that producers will strive to equalize conditions by providing additional facilities to bring forth a more ample output in the future. Now is the time to get building figures and estimates from the different greenhouse construction firms advertised in HORTICULTURE. To build new greenhouses nowadays is not at all a laborious undertaking. The greatest part of the most particular work is done by the mill. It is easily and quickly framed and set up. It is real fun to build a new greenhouse, and a delight to conduct gardening operations in a new, well-planned house. My advice is to build large enough, while you are at it; to build plain and simple but substantial; to avoid all frills and unnecessary ornamentation; to have your plans well and thoroughly thought out in every detail before you order the material and to let this be of the best and most durable that can be had.

Miltonia vexillaria

When this summer-flowering orchid is through flowering the plants should have any necessary repotting done. They do well in pans or pots, which should be half-filled with broken crocks and lumpy charcoal. A good compost is osmunda fern fiber mixed with a little live sphagnum. Place them in as cool a house as you may have; there is no better place for them than a north house. After repotting you will need to use extreme caution in watering at the roots; only just keep the plants moderately damp until they have formed plenty of new roots. Where you can, use blinds or lath shadings that can be removed when the powerful sun has gone. These orchids like plenty of ventilation both day and night up to the fall. Keep them well syringed overhead during all bright weather. Miltonias are very partial to thrips so to keep the plants absolutely clean they should be sponged or dipped with fir tree oil or Aphine about every two weeks.

Pansies for Next Winter

There is quite a good demand for pansy flowers during the winter months. To have nice large plants by next fall, it is not a bit too early to sow some of the best varieties now. Sow broadcast in a cold frame where the soil has been worked and raked until it is fine and mellow. Sow not too thickly, cover with fine soil and press firmly all over with a board, then water gently with a fine rose. Keep shaded until they begin to come up. Pansies will grow and do much better when planted early if kept shaded with cheese cloth until the overdrying and powerful mid-day sunshine passes, when it can be taken off. When the seedlings have made enough growth so they can be nicely handled they can be transplanted into other frames. The soil should be made rich and quite a bit of leaf mold mixed in. They can be planted from 6 to 8 inches apart each way and with timely waterings and attention they will make large clumps by October.

Young Ferns for Dishes

Young ferns that are of good size and are in flats can now be potted into 2-inch pots and will make fine stock by October. Give a liberal and rich compost, say three parts of fibrous soil, one part each of leaf mold and well decayed cow manure and enough of sand to make it porous. To keep them from drying out the pots should be plunged to the rims in a couple of inches of fine coal ashes or sand spread on the benches. Give only enough shade to break the direct rays of the sun. Give plenty of ventilation to keep the atmosphere as cool and moist as possible. Look over your plants morning and afternoon so they will not become dry at the roots. To encourage a good stocky growth they should have an occasional spreading out as the plants begin to crowd one another.

Sowing Late Annuals

Now is a good time to make a sowing of annuals which will flower during the early fall. Of course there is some risk but it pays sometimes where we do not have an early frost. Make a sowing of all such annuals as candytuft, clarkias, coreopsis, calendulas, Shirley poppies, larkspurs, lupines, etc. Sow where they have water handy so they can be kept moist during their growing period. With good cultivation and plenty of water it is surprising what rapid growth they will make.

Mr. Farrell's next notes will be on the following: Violets; Begonia Gloire de Lorraine and Cincinnati; Rambler Roses; Ferns from Spores; Mignonette; Propagating Ivies.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Layering Strawberries

In some localities this work will have been on hand for some little time yet there are others who will only just be ready to proceed, such is the territory covered by HORTICULTURE. Before commencing the job let your mind travel back to last January and the three succeeding months; study up the growth and crops produced from the forcing strawberries; were there any trials made? If so, did any one surpass the standard variety that has occupied the forcing house or shelves as the case may be for the past few seasons? If so, increase the number to be grown this season. Also if any new varieties have come into prominence during the past season give a few of them a try-out in the pots this time. At the time of layering, a complete list should be made up of the varieties to be grown and the requisite number, which makes the job so much easier for the one who is doing it. Most establishments will have a favorite variety for forcing and if this has proved itself worthy of the place entrusted to it continue to grow it with a few try-outs. These latter are always interesting if not always profitable. With us Marshall is a prime favorite.

Have sufficient three-inch pots clean and also enough soil sifted through the half-inch sieve. It is essential the pots be clean, so they will turn out good at the time of potting up. The soil is not so particular—anything sweet the plants will root into freely. Young plants that have not fruited this year will be found to possess the strongest runners, which should always be selected for pot work. The best method of procedure is to clean the stock plants first, remove all weeds, bad leaves and also any runners that are too old. It is useless to put in any that are dry and hard. Those remaining should be drawn to one side of the plant so that the small pots can be placed close together to facilitate watering and also to, in some degree, prevent a rapid drying out. Those pots that are unfortunate enough to be on the outside can have some soil or straw mulch that has been on the bed drawn up around them which will help to keep them evenly moist with the others. The work itself is easy after all the preparatory work is done. Have the pots placed in position, select the layer for each one, remove any more plants that may be on the same wire, (or rhizome) see that this wire will reach to the bottom of the pot, leaving the crown of the plant to be level with the top of the soil. Fill in the soil on top of the wire which will keep it in position until such time as the roots push out to perform their duties. See that the pots are stood level to retain the water which must be given them frequently to keep the soil moist for the roots to grow into. When the pots are nicely filled with roots cut the wire and transfer them to a convenient place to await the final potting.

Rivers Orange Nectarine

When we are confronted with the problem of selecting varieties to do us service, whether it be to replace old and wornout stock, additional pot-trees or the planting of a new house there will generally creep in one or two of some variety which we have a personal liking for in addition to what might be called its face value. After weighing up the merits and demerits of most of the varieties of nectarines grown, Rivers' Orange always finds a warm spot on account of its flavor. It is different from most of the others; the fruit is inclined to be small when compared with such varieties as Early Rivers or Newton but the eating is not to be surpassed if my palate could judge. Others may not be of the same opinion yet no one to my knowledge has ever turned it down. Those who are not acquainted with this variety will do well to "get next to it" as it is a most delightful thing and something different from the general run of things when you talk of flavor. It is described by the raisers, Messrs. T. Rivers & Son, as medium in size, melting, with the rich saccharine flavor of its parent, Pitmaston Orange.

Do It Now

To speak of ordering stock for next fall or winter delivery may at first glance appear to be away ahead of time but think it over. Some of the crops are already gone, those remaining can be gauged very well as to what the actual results will be. Trees not giving satisfaction are best replaced. It so happens that once in a while a tree does not come up to its reputation, or a singularity may be that a certain variety refuses to grow as it ought to do. These and other conditions can be taken into consideration and the order placed at once thus ensuring a sure delivery or an early notification that the particular size and quality you require are not in stock. Orders are generally filled in rotation as they are received,—see what it means to have stock selected before it has done growing. HORTICULTURE is willing to assist anyone in making selections, being governed by the performances and crops of said varieties growing under glass in America.

We would call attention to Mr. Penson's note on "Pears in Pots" in last week's issue, and "Propping Apples" which starts off with "Apples can be treated in a similar manner," meaning similar to the pears. The article on pears should have come in first, followed up by the apples, in which case that first sentence would be intelligible. The paragraphs were inadvertently transposed.—Ed.

Edwin Jenkins is taking a few weeks' vacation, at the end of which he will resume his notes on outdoor vegetables and fruit.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Mulch for the Outside Roses

With the real hot summer weather here, and the sun's hot rays bearing down upon the earth almost perpendicular, it stands to reason that the tender rootlets of all the roses ought to have protection of some kind that will keep the soil cool and help hold the moisture so that when the plants are watered once every two or three days no trouble will be experienced in keeping the plants wet. If good blooms are wanted on all the outside roses, use a little bonemeal around the plants first after which a coat of good manure can be applied, this to be followed by a mulch of hay, or any coarse material that may happen to be available.

Weeds Around the Place

Never tolerate tall weeds all around. These not only make the place look unsightly, but are a nuisance. Never allow any weeds on your property to go to seed if you can help it. Not only will your place look much better, but you will find that you will have less and less of weeds as the years go by. Of course your neighbors may be careless and let their gardens all go to weeds, but that excuses no one at all for neglecting his own grounds. Cut all the weeds and burn them.

Painting

If this is not under way as yet, be sure to make the preparation and surprise the houses with a coat of nice paint this summer. The best time to do it is right after the houses are planted. It is then that the least water is used around the houses, and they are drier then than at any other time of the year. The paint will also dry much better and but little if any drier will be required to set the paint. So much the better for the more linseed oil and the less of other liquids in the paint it will wear better. Be sure to sandpaper all the rough places, and to scrape all the old loose paint away, for if this is left on the new coat will soon come off with the old.

Putty

Do not be afraid to use plenty of putty and have the houses tight for the coming season. It is all very well to say they grow just as well. Two places were built right across the street from one another about twenty years ago. One was painted through every two years, and the other never painted right in the first place. Now the latter is all ready for the junk heap, while the former is as good as new, with little repairing. Now then, does it pay to paint? Or does it pay to do anything?

The Sun and the Pots

Do not allow your pots to be stacked up on the south side of the greenhouse, where the sun will be baking them as hard as iron. Pots that are very hard are very easily broken for they loose their elasticity, and become very brittle. Keep them in the shade as much as possible, until the planting is over when they can be washed and put away properly.

FUMIGATING AND SPRAYING CHRYSANTHEMUMS.

Mr. Farrell.

Dear Sir:—To settle an argument, will you please inform me whether you think that two hours is sufficiently long enough to leave fumigation in a 'mum house, making the same strong; or the ordinary and leaving the house closed all night; also what time of day you advise for spraying? We look to you to put the finish to our controversy, as we are all young and consequently "know-it-all."

Sincerely yours, J. D.

Morristown, N. J.

When we enter into this argument we have to consider that the chrysanthemum is a cool-blooded and air-loving subject, so to close the house up all night is entirely wrong, as it only tends to create a superabundance of heat and moisture in the atmosphere of the house which is very detrimental to this class of plants. Chrysanthemums, at this season of the year, should have all the ventilation possible, both night and day. When fumigating it is never wise or sane to think of making one strong fumigation in order to kill the pests, as this is bound to work injury to the plants. The experienced grower's way is to start when the sun is off his plants and leave the house shut up for about three hours, after which he puts on ventilation. After using an ordinary fumigation, if he finds they are not all killed he gives them another dose the following night, which generally completes their destruction. By following up these light fumigations once in every ten days you will be able to keep your plants clean. Spraying or syringing can be done two or three times a day, but doing the last one about 2 o'clock in the afternoon so the plants will have time to dry before night. As fall approaches you can cut this down to one in the morning. Syringing should only be done on bright days and when the flowers show color it should be discontinued altogether.

JOHN J. M. FARRELL.

DISEASE OF PANSIES.

Mr. John J. M. Farrell.

Dear Sir:—We are losing hundreds of pansy plants like the enclosed. Can you tell me the trouble and give remedy?

Very truly, C. W. B.

Rye Beach, N. H.

In answer to the foregoing inquiry, judging by the appearance of the sample of pansy sent, I should say that they are suffering from some of the species of fungi common to most plants. Without further particulars as to the mode of cultivation, etc., it would be hard to give a definite remedy, as such diseases can be brought on by a number of causes. It may be that your plants are planted in an uncongenial soil, which gives the roots a check to such an extent that they cannot take up the required nourishment to keep them in a healthy state. If such is the case it would be impossible to help them out. The only thing to do would be to avoid using the same piece of soil a second time. For pansies to do their best, new ground should be used often or in rotation with some other crop that had different food requirements. When the disease is brought on by other causes it can be stopped by spraying with some good fungicide and there is nothing better than the ammonical copper carbonate solution, which can be made as follows: Copper carbonate, one ounce; pure ammonia, one pint; put in a bottle and allowed to dissolve. This can be used from one ounce to one ounce and a half, to a gallon of water. Spray about every ten days. Fungicides, in the treatment of fungous diseases of plants, are as a rule preventive remedies, and their successful use depends very largely on early and repeated applications. By attending to all conditions that are sure to produce a healthy growth, such as avoiding overdryness at the roots, careful waterings and keeping your plants clean of all decaying matter, etc., you should soon overcome this trouble.

JOHN J. M. FARRELL.

HORTICULTURE

VOL. XVIII JULY 5, 1913 NO. 1

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Eremuri in Hardy Herbaceous Exhibit.

NOTES ON CULTURE OF FLORISTS' STOCK—Getting Ready for Carnations—Greenhouse Building—Miltonia vexillaria—Pansies for Next Winter—Young Ferns for Dishes—Sowing Late Annuals—*John J. M. Farrell*..... 5

FRUIT AND VEGETABLES UNDER GLASS—Layering Strawberries—Rivers' Orange Nectarine—Do It Now—*George H. Penson*..... 6

ROSES UNDER GLASS—Mulch for the Outside Roses—Weeds Around the Place—Painting—Putty—The Sun and the Pots—*Arthur C. Ruzicka*..... 7

FUMIGATING AND SPRAYING CHRYSANTHEMUMS—*John J. M. Farrell*..... 7

DISEASE OF PANSIES—*John J. M. Farrell*..... 7

SOCIETY OF AMERICAN FLORISTS—Program of the Twenty-Ninth Annual Meeting and Exhibition at Minneapolis—Officers..... 9

Ladies' Society of American Florists—General Sports Program..... 10

MINNEAPOLIS PARKS—Illustrations..... 10

CLUBS AND SOCIETIES—American Association of Nurserymen—American Sweet Pea Society—The Newport Show..... 11

Exhibition at Amherst..... 12

Philadelphia Sweet Pea Show..... 15

Club and Society Notes..... 16

Summer Meeting of the Minnesota Horticultural Society..... 21

About Affiliation—*Irwin Bertermann*..... 21

SEED TRADE—Dutch and French Bulb Prospects—Notes..... 16

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures—New Flower Stores..... 18

Flowers by Telegraph..... 19

DURING RECESS—New York and New Jersey Association of Plant Growers—New York Florists' Club—A Merry Dozen, Illustration..... 20

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati, Rochester..... 23

New York, Philadelphia, St. Louis, Washington..... 25

BRITISH HORTICULTURE—*W. H. Adsett*..... 30

OBITUARY—Frank Wiegand—Jacob Freduchson—Mrs. E. G. Uihlein..... 30

MISCELLANEOUS:

Cincinnati Notes..... 19

Washington Notes..... 20

Rose Mme. Cecil Brunner..... 20

Chicago Notes—Philadelphia Notes..... 21

Personal..... 25

News Notes..... 25

Greenhouses Building or Contemplated..... 30

The June shows

The month of June seems to be rapidly gaining in importance as an exhibition month and in many respects makes a close second to November. Roses, strawberries, peonies, sweet peas and the great variety of showy shrub and herbaceous material available for June showing are a prime incentive to competition and display. While there is no question of the public admiration for these lavish products of the early summer yet it is plain that conditions at this season can never be favorable to the popular success of any exhibition with paid admission and the incurring of any great pecuniary responsibility in installing or conducting such affairs in June is not to be considered, except in the case of institutions financially able to assume the expense regardless of the income from attendance. The free show backed by subscriptions to cover its prize schedule and other expenses will in most cases prove the safest course and insure the greatest good to the greatest number. Education, not income, is the *raison d'etre* for the June show.

Volume XVIII

With this number HORTICULTURE begins a new volume. The volume which closed with the issue of June 28 comprised 976 pages, which with a number of 4-page inserts brings the dimensions up to approximately 1000 pages, the largest volume HORTICULTURE has put out thus far. The index to same, which accompanies the present issue is an impressive presentment of the vast amount of really valuable matter which we have been enabled to gather together in the space of six months and to deliver to our readers for the trifling sum of half a dollar. There are papers in the field more voluminous than HORTICULTURE but none, we believe, that strive so hard for quality or that give in the aggregate, after the frivolous stuff has been sifted out, a greater amount of reading matter of permanent, practical value. It will be our aim in the volume now starting to enlarge and improve upon the past and the same editorial policy in the selection of the best reading matter obtainable, together with fresh news matter in condensed form, will be continued. The beginning of a new volume is a good time to start a new subscription. Haven't you a friend who might like to subscribe for the coming year? Send us his address and a sample copy will be promptly forwarded to him.

The convention draws near

We present in this issue a practically complete program for the S. A. F. convention at Minneapolis, now only seven weeks away. A perusal of the program will convince the reader that the national society is rapidly growing into new methods, getting away from the mass meeting stage and systematizing its work in a manner befitting an organization numbering fifteen hundred and rapidly growing in numbers and influence. The steady gravitation of the various special one-flower societies to the central body is very evident and the resultant subdivision of the meetings will, no doubt, be cordially welcomed by the convention attendants. The only people who will now feel obliged to sit out every session are those hard-worked slaves—the trade paper men, and this is largely their own fault, in the strenuous rivalry and needless struggle to gather in and print "immediately if not sooner" every detail of meetings, exhibition and pastimes. The program, as presented, is very comprehensive and any florist who cannot find something in it of direct interest to himself must be a pretty poor stick. We believe the time will soon come when any florist worthy of the name will be ashamed to acknowledge that he is not a member of the S. A. F. or any one of its affiliated bodies.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Program of the Twenty-Ninth Annual Meeting and Exhibition to be held in the National Guard Armory, Minneapolis, Minn., August 19, 20, 21, 22, 23, 1913

OFFICERS

President, J. K. M. L. Farquhar, Boston, Mass.

Vice-President, Theodore Wirth, Minneapolis, Minn.

Secretary, John Young, 54 W. 28th St., New York.

Treasurer, Wm. F. Kasting, Buffalo, N. Y.

Board of Directors.

One Year—Harry A. Bunyard, New York City; E. Allan Peirce, Waltham, Mass.

Two Years—Chas. H. Totty, Madison, N. J.; John A. Evans, Richmond, Ind.

Three Years—Thomas Roland, Nahant, Mass.; August Poehlmann, Morton Grove, Ill.

Ex-Officio—Richard Vincent, Jr., White Marsh, Md.

National Flower Show Committee.

Chas. H. Totty, Madison, N. J. (Chairman); W. A. Manda, South Orange, N. J.; W. N. Craig, Philadelphia, Pa.; W. N. Rudd, Chicago, Ill.; Thomas Roland, Nahant, Mass.; George Asmus, Chicago, Ill.

Botanist, Prof. A. C. Beal, Ithaca, N. Y.

Pathologist, Prof. H. H. Whetzel, Ithaca, N. Y.; Entomologist, Prof. Thos. B. Symons, College Park, Md.

Sup't of Exhibition, John Young, 54 W. 28th St., New York.

Tariff and Legislative Committee.

Wm. F. Gude, Chairman, Washington, D. C.; Patrick O'Mara, N. Y.; James McHutchison, N. Y.; Philip Breitmeyer, Detroit, Mich.; Patrick Welch, Boston, Mass.; Winfried Rolker, N. Y.

Judges for the Trade Exhibition.

Classes E and G—P. Welch, Boston, Mass., Chairman; W. F. Kasting, Buffalo, N. Y.; C. F. Rice, Minneapolis, Minn.

A, B and F—John R. Fotheringham, Tarrytown, N. Y. Chairman; L. H. Vaughan, Chicago, Ill.; J. D. Eisele, Riverton, N. J.

C and D—E. Allan Peirce, Waltham, Mass., Chairman; Adolph Poehlmann, Morton Grove, Ill.; M. A. Patten, Tewksbury, Mass.

Competitive Exhibits—Philip Breitmeyer, Detroit, Mich., Chairman; Charles U. Fohn, Colorado Springs, Colo.; Samuel Murray, Kansas City, Mo.

PROGRAM.

Tuesday, August 19th, First Day.

OPENING SESSION.

2 P. M.—Opening Exercises—Ball Room. Address of Welcome, by Hon. Wallace G. Nye, mayor. President Farquhar's Address. Reports of Officers. Naming of Meeting Place for 1914.

EVENING SESSION.

8 P. M.—Reception to President Farquhar, Gold Room, Balcony Floor, Hotel Radisson. Music, Dancing, Refreshments; strictly informal. Balloting for Meeting Place for 1914.

Wednesday, August 20th, Second Day.

MORNING SESSION.

9 A. M.—Meeting of the American Rose Society—Committee Room B.

10 A. M.—Meeting of the American Sweet Pea Society—Committee Room C. Morning Session of S. A. F. and O. H.—Committee Room A. Report of Tariff and Legislative Committee—Discussion. Nominations of Officers for 1914. Reports of State Vice-Presidents.

10 A. M.—Annual Meeting of Ladies' Society of American Florists—Committee Room D.

2 P. M.—Meeting of the Florists' Telegraph Delivery—Committee Room B.

3 P. M.—S. A. F. and O. H.—Report of National Flower Show Committee, by Chairman Charles H. Totty—Committee Room A. Discussion. Report of School Garden Committee—Committee Room A. Report of Judges of Trades Exhibit—Committee Room A.

EVENING SESSION.

8 P. M.—Stereopticon Lecture—By Theodore Wirth: "Parks and Boulevards of Minneapolis"—Ball Room.

Thursday, August Twenty-First, Third Day.

MORNING SESSION.

9 A. M.—Meeting of the American Carnation Society—Committee Room B.

10.30 A. M.—Meeting of the American Gladiolus Society—Committee Room C.

10 A. M. to 12 M.—S. A. F. and O. H.—Polls open for Election of Officers.

10 A. M.—Bowling Contest, Ladies' Society A. F.—Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue North.

2 P. M.—Annual Bowling Tournament S. A. F. and O. H.—Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue North.

Friday, August Twenty-Second, Fourth Day.

MORNING SESSION.

9 A. M.—Meeting of the Florists' Hail Association—Committee Room C.

10 A. M.—Meeting of the American Chrysanthemum Society—Committee Room B.

11 A. M.—Session of S. A. F. and O. H.—Committee Room A. Report of Chairman of Publicity Committee. Discussion and Action on the following recommendation of the Board of Directors: "Resolved, That it is the sense of the Board of Directors that some action be taken by the Society whereby exhibits of artificial flowers at our Trade Exhibitions and Flower Shows be excluded."

AFTERNOON SESSION.

2 P. M.—S. A. F. and O. H.—Report of Chairman W. R. Smith Memorial Committee; Report of Chairman Committee on Sports—Committee Room A.

3 P. M.—Stereopticon Lecture—By Leonard Barron: "Glimpses of American Gardens"—Ball Room.

4 P. M.—Paper—By A. Farenwald: Affiliation—Ball Room. Discussion.

EVENING SESSION.

8 P. M.—Special S. A. F. and O. H. Concert—By the Minneapolis Park Orchestral Band at Lake Harriet Pavilion. Boating—On Lake Harriet. Compliments of the Board of Park Commissioners. Take cars for Lake on Hennepin Ave. at 7 P. M.

Saturday, August Twenty-Third, Fifth Day.

ALL DAY OUTING.

Guests of the Minneapolis Florists' Club.

9 A. M.—Take special cars on 6th Street between Hennepin Avenue and 1st Avenue North for Tonka Bay. One hour's ride through a splendid rolling farming country to beautiful Lake Minnetonka. Refreshments, Dancing, Boating, Fishing, Bathing, Sporting Events—As per program.

Prof. H. H. Whetzel of Cornell University, Official Pathologist, will have on exhibition an extensive collection of specimens and descriptive material covering plant diseases. The educational value of this exhibit was clearly demonstrated at the convention at Chicago. The exhibit will be in charge of Roy C. Faulwetler, who will be pleased to give visitors information regarding the same.

LADIES' SOCIETY OF AMERICAN FLORISTS.

Tuesday, August Nineteenth, First Day. 8 P. M.—President Farquhar's Reception—Gold Room, Balcony Floor, Hotel Radisson. Music, Dancing, Refreshments.

Wednesday, August Twentieth, Sec-

ond Day. 10 A. M.—Twelfth Annual Meeting—Convention Hall, Committee Room D.

12 M.—6 P. M.—Auto Trip—Around City and Park System. Luncheon—At Minnehaha Park. (Guests of Ladies of Minneapolis Florists' Club). Evening Open.

Thursday, August Twenty-First, Third Day. 10 A. M.—Bowling Contest—At Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue N. Afternoon Open—Minneapolis ladies will be glad to act as guides to stores and places of interest.

8.30 P. M.—Reception—Gold Room, Balcony Floor, Hotel Radisson.

9.30 P. M.—Dancing, Refreshments.

Friday, August Twenty-Second, Fourth Day. 10 A. M.—Automobile Trip—Starting from Hotel Radisson to St. Paul. (Guests of St. Paul Florists. Return to Hotel at 5 P. M.

8 P. M.—Special S. A. F. and O. H. Concert—By Minneapolis Orchestral Park Band at Lake Harriet. (Compliments of Board of Park Commissioners.)

Saturday, August Twenty-Third, Fifth Day. 9 A. M.—Outing—To Lake Minnetonka. Special cars from 6th Street between Hennepin Avenue and 1st Avenue N.

GENERAL SPORTS PROGRAM.

Thursday, August Twenty-First.

Ladies' Bowling Contest—10 A. M. sharp, Central Bowling Alleys, 1st Avenue N and 6th Street.

Men's Individual Bowling Event—2 P. M. sharp, Central Bowling Alleys.

Men's Team Bowling Event—4 P. M. sharp, Central Bowling Alleys.

Saturday, August Twenty-Third.

General Outing—Tonka Bay, Lake Minnetonka.

Baseball—Minneapolis Florists' Club Team vs. S. A. F. and O. H. All Stars—1 P. M.

Rules.—Every contestant must be a member of the S. A. F. and O. H. in order to take part in the sports events, and also a member of the Minneapolis Florists' Club to take part in the team contests representing the Minneapolis Florists' Club.

Races and Field Sports.

11 A. M. Sharp. All Races to be from Scratch.

Girls' Race—10 years and under, 40 yards. 1st and 2nd prize.

Boys' Race—10 years and under, 50 yards. 1st and 2nd prize.

Girls' Race—15 years and under, 60 yards. 1st and 2nd prize.

Boys' Race—15 years and under, 100 yards. 1st and 2nd prize.

Single Ladies' Race—50 yards. 1st and 2nd.

Married Ladies' Race—50 yards. 1st and 2nd.

Men's Race—100 yards, 125 pounds and over. 1st and 2nd.

Fat Men's Race—200 pounds and over, 100 yards. 1st and 2nd.

Rules. Fat men to enter this race height 5 ft. 10 in. or less must weigh 225 pounds or less. Fat men 225 or over must be 6 ft. high or over.

Wheelbarrow Race, Men—30 yards and back. 1st and 2nd.

Wheelbarrow Race, Boys—15 years and under, 30 yards and back. 1st and 2nd.

Double Race, Men—30 yards. 1st, 2nd and 3rd.

(One man to be carried to certain line and other man to carry him back.

Women's Ball Throwing Contest—1st and 2nd.

100 Yards Open Event—1st, 2nd and 3rd.

(All to be lying with head on the line when starting.)

All Fours Race, Men—30 yards, creeping position. 1st, 2nd and 3rd.

Egg and Spoon Race, Ladies—50 yards. 1st and 2nd.

Tug of War—Between East and West, or between Cities. 1st.

C. N. Ruedlinger, chairman of the sports committee, is now prepared to receive special contributions and prizes for the various sporting events scheduled for the Convention next month.

Some water sport contests will be arranged for. Conditions and prizes will be announced at the time of the convention.

The Sweet Pea Exhibition of the Massachusetts Horticultural Society will be held in Horticultural Hall, Boston, on Saturday and Sunday, July 12 and 13, 1913. The fifth annual exhibition and convention of the National Sweet Pea Society of America will be held in connection with this show. There will also be exhibits of other seasonable flowers and fruits and vegetables.

VIEWS IN MINNEAPOLIS PARKS.



Trail Along the Banks of Lake Calhoun



[illegible] Along Mississippi River

CLUBS AND SOCIETIES

AMERICAN SWEET PEA SOCIETY.

Annual Exhibition and Convention July 12th and 13th.

At a very enthusiastic meeting of the executive committee, held in Horticultural Hall, Boston, Mass., Saturday, June 28th, President William Sim presiding, the following special prizes were received and placed on record and will appear in the schedule apart from those already published:

R. & J. Farquhar Co.'s prizes for six vases of sweet peas, 25 sprays to a vase, 6 distinct Spencer varieties—1st, $15; 2nd, $10.

John Lewis Childs' prizes, for vase of mixed sweet peas, not more than 25 sprays—1st, $5; 2nd, $3; 3rd, $2.

Penn silver cup, value $50, for the best display, 50 square feet.

Boston Flower Exchange, Inc., prizes, 6 vases, 6 varieties, 100 sprays to a vase, arranged for effect; gypsophila, sweet pea haulm, ferns or other foliage can be used; arrangement to count 50 per cent—1st, $15; 2nd, $10; 3rd, $5.

Mount Desert Nurseries prize, for basket of sweet peas, arrangement to count $10.

Gardeners' & Florists' Club of Boston prizes, for children—1st, $3; 2nd, $2; 3rd, $1; 4th, 50c.; 5th, 25c.; in the following classes: White, 6 sprays to a vase; light pink, do; deep pink, do; lavender, do; crimson or scarlet, do; any other color, do; bouquet of sweet peas—1st, $5; 2nd, $3; 3rd, $2.

—Peter Henderson & Co.'s prizes, for private gardeners 12 vases of Spencers in 12 varieties, 25 sprays to a vase—1st, $15; 2nd, $10.

Peter Henderson & Co.'s prizes, for amateurs, 12 vases, 12 varieties, 12 sprays to a vase—1st, $12; 2nd, $8; 3rd, $5.

Also donations for the guarantee and general fund were received and promised by the following firms and gentlemen:

Fottler, Fiske, Rawson Co., Means & Thatcher, Peter Fischer, J. L. Miller, Lord & Burnham Co., Henry Comley, A. T. Stearns Lumber Co., Boston Cut Flower Co., J. A. Breck & Sons, R. & J. Farquhar & Co., W. N. Craig, Welch Bros., Mt. Desert Nurseries, Geo. B. Dorr.

The following were nominated for judges:

William H. Duckham, Madison, N. J.; Edward Kirk, Bar Harbor, Me.; Geo. W. Keer, Doylestown, Pa.; A. H. Wingett, Lenox, Mass.; Charles Knight, New York, N. Y.; Charles H. Totty, Madison, N. J.; Andrew Miekle, Newport, R. I.; E. H. Wetterlow, Manchester, Mass.; Samuel Goddard, South Framingham, Mass.; Thomas Roland, Nahant, Mass.; W. T. Hutchins, Millbury, Mass.; Arthur Griffin, Woburn, Mass.; W. H. Waite, Yonkers, N. Y.; William Kleinheinz, Ogontz, Pa.

The following managers for the Exhibition were appointed:

James Wheeler, Natick, Mass., Robert Cameron, Cambridge Mass.

For schedules and other information write to

HARRY A. BUNYARD, Sec'y,
342 West 14th Street,
New York, N. Y.

THE NEWPORT SHOW.

At the outdoor exhibition of the Newport Garden Association and Newport Horticultural Society at Harbor Court last week, special prizes were awarded as follows:

Weeber & Don prizes for six distinct kinds of vegetables—1st, Mrs. T. J. Emery, gard. A. L. Dorward; 2nd, Colonel Frederick Mason, E. L. Lewis, gard.

Charles H. Totty prize for the best vase of yellow roses, any variety, cut from outdoors—Mrs. William B. Leeds, gard. Wm. Gray.

Joseph Breck & Sons prize, for the best two hanging baskets of foliage and flowering plants—Mrs. Emery.

Hitchings & Co. prize, for the best design of a planting of conifers and evergreens in a space not to exceed 20 square feet—Oscar Schultz.

Bobbink & Atkins prizes for best six vases of outdoor-grown flowers, roses excluded—1st, Mrs. E. F. Vanderbilt; 2nd, August Belmont, gard. John A. Forbes.

A. N. Pierson prize, for the best collection of cut orchid blooms—H. E. Converse, gard. D. F. Roy.

J. M. Thorburn & Co. prize, for best 12 distinct kinds of vegetables—Mrs. Emery.

W. B. Scott & Co. prizes for 13 pots or pans of annuals in bloom—1st, Mrs. Emery; 2nd, Mrs. H. M. Brooks, gard. Jas. Bond.

Mrs. W. G. Weld's amaryllises were awarded a silver medal. A silver medal was also awarded to H. A. Dreer for aquatic garden. Bobbink & Atkins got a silver metal and silver cup for display of topiary plants and plant tubs and Jackson Dawson got four bronze medals for the roses Lady Duncan, Sargent, Arnold and Rugosa Repens. A gold medal was given to John Mahan for rock garden. Certificates of merit were awarded to John Mahan for rhododendrons, Wm. Tricker for aquatics, Thos. Brooks for New English sweet peas, A. N. Pierson for general display and Mrs. Moody rose.

Some of the leading winners in the other special and regular classes for plants and cut flowers were:

Mrs. W. G. Weld, gard. Paul Volquardson; Mrs. F. Vanderbilt, gard. David Hay; H. A. Taylor, gard. Wm. Mackay; Mrs. H. D. Auchincloss, gard. John Mahan; H. H. Rogers, gard. Jas. Garthly; Mrs. T. O. Richardson, gard. Jas. Robertson; Mrs. W. W. Sherman, gard. Andrew Ramsay; Miss Fannie Foster, gard. C. M. Bugholt; Vincent Astor, gard. James Boyd; W. Waldorf Astor, gard. Hugh Williamson; Mrs. Alfred Tuckerman, gard. E. Kempanear; D. B. Fearing, gard. J. Baumgartner; W. B. Greene, gard. Samuel Speers.

In making arrangements for the exhibits on the show grounds, the Garden Association failed to provide proper protection for the tender exhibits classed in the schedule and on this account many excellent specimen greenhouse plants intended to be there were not shown. The Association was fortunate however in securing as manager of the show, Joseph Manda of West Orange, N. J., who after much hard work seemed to make the best of the material available. The only classes well filled were the rose and sweet peas and the quality in both was excellent especially the display of sweet peas by William Gray who by this won the silver cup offered by the Aphine Manufacturing Co., for the most meritorious exhibit by a member of the National Association of Gardeners., After the close of the show president A. S. Michell of the Horticultural Society invited the visitors and a number of local gardeners to the Bellevue Hotel where an excellent dinner was in readiness which was generously provided for by Mrs. W. S. Wells a member of the Garden Association.

After dinner had been done justice to President Meikle opened the speech-making session with appropriate remarks and calling on Mr. Manda as the first speaker, who responded with a spicy account of his experiences as manager of the show. Other speakers were L. Oesternei, William Tricker, J. E. Lager, O Schultz, A McLellan, J. Hart, J. T. Allen.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. B. Pilkington, of Portland, Oregon, will be president of the American Association of Nurserymen for the coming year. He was unanimously elected at the closing session of the annual convention at Portland, June 20.

While Mr. Pilkington was not an active candidate for the honor, the sentiment of the convention early swung his way and his election was a tribute to his service as a member of the association of many years' standing, who had always taken an active part in promoting its best interests. Mr. Pilkington is credited with having not only brought the convention of the American Association to Portland this year, but with having persuaded the Pacific Coast Association to hold its convention at the same time and place, thus making possible the unity of action that characterized the joint conventions. It was the first time that the American Association had ever met west of the Rocky Mountains and the first time that it had ever met in joint session with the Pacific Coast Association, next to it the most important organization of nurserymen in the country.

Mr. Pilkington succeeds Thomas B. Meehan, of Dresher, Pa., who had some supporters for re-election. Mr. Meehan was not an active candidate and his friends joined in making Mr. Pilkington's nomination and election unanimous when the strong sentiment in his favor became apparent.

A tribute to the years of faithful service of Secretary John Hall, of Rochester, N. Y., was rendered by his re-election without opposition. Other officials elected are: Vice-President Henry B. Chase, of Chase, Ala.; Treasurer, Peter Youngers, Geneva, Neb.; Executive Committee, three-year term, Thomas B. Meehan, Dresher, Pa.; two-year term, J. H. Dayton, Painesville, Ohio; one-year term, P. A. Dix, Roy, Utah.

Cleveland was unanimously selected as the 1914 meeting place, and it was decided to hold the convention the last week in June, because it will be easier for delegates to leave their nurseries at that time than earlier in the month.

San Francisco will make a fight for the 1915 convention, and to pave the way for the contest that city withdrew as a candidate for the 1914 meeting, which was also wanted by Niagara Falls, Cedar Point, Ia., New Orleans and Milwaukee.

An amusing feature of yesterday's session occurred when Secretary Hall, in reading the names of members who had died since the previous meeting, pronounced that of John C. Chase, of Derry, N. H. The delegates rose in token of respect for the dead, and just as they were sitting down again, Mr. Chase, who had disrespectfully remained seated, arose and denied his demise. He declared that he was present in the flesh, and that the Chase who had passed on was his cousin, Benjamin Chase, with whom he had always been associated in business. A stenographer's error in transcribing the names was responsible for the mistake. *Portland Oregonian.*

STRAWBERRIES

Farquhar's Pot-Grown Plants

NOW READY!

Full Crop Next Summer if Planted Early

Write for our Mid-summer Catalogue of Varieties for July and August Planting

R. & J. FARQUHAR & CO.

BOSTON, MASS.

EXHIBITION AT AMHERST, MASS.

The Florists' and Gardeners' Club of the Masschusetts Agricultural College, which is composed largely of members of the floricultural classes, held an exhibition of cut flowers during Monday and Tuesday, June 16th and 17th of Commencement week. This exhibition was largely attended by town's people and Commencement visitors and proved an attractive feature of the week. A large number of named varieties of peonies were on exhibition from the trial plots at the college, also many of the herbaceous perennials which are in flower at this season. The college also exhibited varieties of carnations, roses and sweet peas. This exhibit was supplemented through the generosity of many of the commercial and private growers of the vicinity. The A. N. Pierson Company of Cromwell, Conn., sent splendid vases of Dark Pink Killarney, White Killarney and Lady Hillingdon roses. W. H. Elliott of Madbury, N. H., and Brighton, Mass., sent vases of American Beauty, Christine Miller, Mrs. Taft and Lady Hillingdon roses. Patten & Company of Tewksbury sent a vase of Princess Dagmar carnations and O. D. Allyn, a rose enthusiast of Holyoke, Mass., showed thirty-six varieties of hybrid perpetual and hybrid tea roses. S. A. Wilde of Taunton, Mass., sent forty varieties of outdoor roses and sixty types and varieties were received from Elizabeth Park at Hartford, Conn.

The past year has been a progressive one for the Department of Floriculture. There were eight members in the graduating class and all of these have secured desirable positions.

YOUNG ROSE STOCK

GRAFTED AND OWN ROOT

White Killarney Pink Killarney Mrs. A. Ward
Hillingdon Richmond
American Beauty Kaiserin Augusta Victoria

W. H. ELLIOTT, - - - Brighton, Mass.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale..... $3.80 10 bales, each.. $3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots Write for prices

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Arrived in fine condition: Cattleya Trianæ special fine type, C. Gaskelliana, C. Dowiana, Dendrobium thyrsiflorum, D. chrysotoxum, D. formosum, D. Jamesianum, D. Devonianum, D. Dalhousianum, D. Lowii, Aerides Lawrenceæ and Vanda cærulea. Other kinds in transit.

Write for prices.

LAGER & HURRELL SUMMIT, N. J.

Boddington's Gigantic Pansies

Can be produced only from the **giant** strains. Our **CHALLENGE PANSY** seed contains only the **giant self-colors**, the **giant striped** and **variegated** and the **giant blotched**, etc., all carefully mixed in proportion. You could not buy better seed if you paid **$100 per ounce.** Our Challenge Pansy seed during the past season gave unprecedented satisfaction, and every order booked last year was duplicated and increased this year. All the testimonials received mentioned specially the high grade of flowers—color, form and size of the individual blossoms. This year, by adding improved types, intending customers can absolutely rely on a duplication of this season's success with increased satisfaction. Our "mark" for this strain is **"Challenge,"** and it is all the word denotes.

Pansy—Boddington's "Challenge"—All Giants

This mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self-colors, the Giant striped and margined, and the Giant blotched, etc., all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist who has grown it said: "Why don't you call it Defiance?"

½ trade pkt. 25c., trade pkt. 50c., ⅛ oz. 75c., ¼ oz. $1.50, ½ oz. $2.75, oz. $5.00.

BODDINGTON'S QUALITY "ENGLISH" PANSY

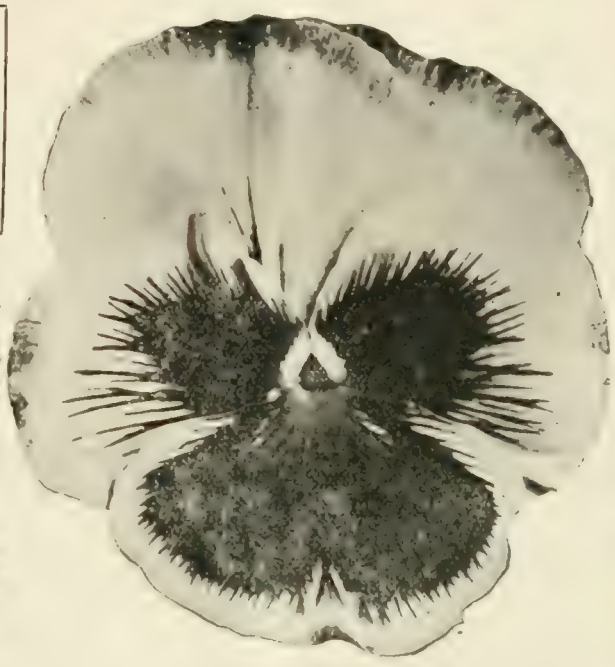
A superb strain of highly-colored flowers in great variety and immense size.

Our Mr. Bunyard, while visiting the Royal International Exhibition in London, was much impressed with these blooms, and strongly recommends this mixture to florists.

Trade pkt. (500 seeds), $1.00; ½ trade pkt. (250 seeds), 50c. ¼ oz. $2.25, ½ oz. $4.25, oz. $8.00.

Other Choice Varieties of Giant Pansies

	Tr pkt.	¼ oz	½ oz
Triumph of the Giants. Extremely large flower of beautiful colorings. Should be grown by every florist	$0 50	$2 75	$5 00
	Tr. pkt	**¼ oz.**	**Oz**
Boddington's "Challenge" Mixture	$0 50	$1 50	$5 00
Giant Trimardeau. Mammoth flowering, and in a good range of color	15	50	1 50
Giant Masterpiece (Frilled Pansy). Petals beautifully waved; exquisite colors	25	1 25	4 00
Cassier's Giant. A fine strain of large, highly colored flowers	15	1 25	4 00
Giant Bugnot's Stained. Extra choice flowers, large and plenty of light colors	50.		
Giant Madame Perret. A recent introduction by a celebrated French specialist; of strong, free growth	15	85	3 00
Giant Fire King. Brilliant reddish yellow, with large brown eyes	15	75	2 50
Giant Lord Beaconsfield. Deep purple violet, top petals light blue	15	50	1 50
Giant Canary Bird. Ground color is a bright golden yellow and each petal is market with a darker blotch	15	85	3 00
Giant Orchidaeflora, or Orchid-flowered Pansy. Splendid variety; beautiful shades of pink, lilac, orange, rose, terra cotta, chamois, etc	25	1 50	5 00
Giant Emperor William. Ultramarine blue, purple eye	10	50	1 50
Giant Golden Queen. Bright yellow, no eye	15	60	2 00
Giant Golden Yellow. Yellow, brown eye	15	75	2 50
Giant King of the Blacks (Faust). Black	15	60	2 00
Giant President McKinley. Golden yellow, large, dark blotch	15	85	3 00
Giant Prince Bismarck. Yellowish bronze, dark eye	15	75	2 50
Giant Pretiosa. Crimson rose, white margin, violet blotch		1 50	5 00
Giant Rosy Lilac	15	60	2 00
Giant White. Violet spot	10	60	2 00



Challenge Pansy.

NOVELTY PANSIES

	Tr. pkt.
ADONIS. Light blue, with white center	$0 25
ANDROMEDA. Rosy, with lavender tints	25
BRIDESMAID. Giant flowers of rosy white	25
EMPEROR FRANCIS JOSEPH. Pure white, large violet spots	25
MAUVE QUEEN. A delicate mauve Pansy, the lower three petals marked with a large blotch of carmine	25
PSYCHE. Violet, bordered white; beautifully waved petals	25
PEACOCK. All the name implies; a most beautiful vari-colored variety; peacock blue, edged white	25
RUBY KING. Superb crimson and red shades	25
SNOWFLAKE. Pure white; immense flower	25
VULCAN. Giant brilliant dark red, with five black blotches; unique	25
Collection of the above 10 varieties, one packet each, for	$2.

Boddington's Giant Pansies to Color

Named Varieties Mixed

For our customers who desire special shades in Pansies we have pleasure in offering the following:

Light Shades, Yellow Shades, Spotted Shades, Striped and Mottled, Dark Shades, Blue Shades, Bronze Shades, Red and Brown Shades. Trade pkt. 25 cts. ¼ oz. $1.00, ½ oz. $1.75, oz. $3.00.

ARTHUR T. BODDINGTON, Seedsman, 342 W. 14th St. NEW YORK

BRECK-ROBINSON NURSERIES

LEXINGTON, - - MASS.
BOSTON, - - - MASS.

A large and complete assortment of
Evergreen and Deciduous Trees
Shrubs, Roses, Vines
Herbaceous Perennials and
Bedding Plants

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

GEO. J. PEARSON, Pres & Treas. WM J. ZARTMANN, V Pres & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.
ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

Nursery Stock
Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES
Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.
P. OUWERKERK, 216 Jane St. Weehawken Heights P. O. No 1, Hoboken, N. J.

The New Sargent Rose
Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.
EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

ARAUCARIA EXCELSA
5 in., 5½ in and 6 in pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.
Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

NEW ROSES
The best new Roses of the year without question are
MILADY MRS. GEORGE SHAWYER
MRS. CHARLES RUSSELL
We have an excellent lot of plants ready to ship. Let us quote you on the number of plants you require
Plant the best new Roses and keep ahead
A. N. PIERSON, INC.
CROMWELL, CONN.

B. & A. SPECIALTIES
Our World's Choicest Nursery and Greenhouse Products for Florists
PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES
Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.
BOBBINK & ATKINS
Nurserymen and Florists Rutherford, N. J.

EVERGREENS FOR IMMEDIATE EFFECT JAPANESE MAPLES IN POTS
Potted Strawberries our OWN GROWING Roses from 6-INCH pots
Send us a list of your wants
P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK
WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.
Our Illustrated and Descriptive Catalogue for the asking
THE BAY STATE NURSERIES, North Abington, Mass.

FRAMINGHAM NURSERIES SOUTH FRAMINGHAM, MASS. U-GET-A TRADE MARK —DEAL—

W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

In writing to Advertisers kindly mention Horticulture

PHILADELPHIA SWEET PEA SHOW.

The annual sweet pea show of the Pennsylvania Horticultural Society was held on June 26th. There was a very creditable exhibition in the competitive classes. The premier display was put up by Wm. Comfort, gardener for C. H. Clark, Jr. They were the best grown and most perfect flowers in the competitive classes. His collection included among others, the following popular varieties: Ramona, blush; Etta Dyke, snow white; Master piece, pale mauve; Queen Victoria; othello, maroon; Tennant, deep mauve; America, pink and white striped. Other growers who distinguished themselves in the competitive classes were R. Abernethy, gardener for Thos. McKean; Axel Lindroth, gardener for Rudulph Ellis; Thos. Roberts, gardener for Hon. Edward D. Morrell; Charles Weyand, gardener for G. H. McFadden, Jr.; Hugh Scott, gardener to W. W. Frazier; Joseph Hurly, and David Aiken.

In the non-competitive department the banner show was put up by Burpee under the superintendence of that veteran sweet-pea expert George W. Kerr. About two hundred vases were staged and although the date was a little late for Fordhook at its best, the showing was magnificent. Seven first class certificates were granted new varieties also a special award for the exhibit as a whole. Among the varieties certificated were the following: King White, one of the greatest whites since Dorothy Eckford; always four to the stem when in good form; will be sent out in 1914; Illuminator, a brilliant orange scarlet, very pure self, immense in size, and perfection in form, will be sent out in 1914; Wedgewood, azure blue a very beautiful variety; Floradale dairy, a new yellow seedling raised at Lompoc, California, will not be sent out for some time; when at its best produces a large number of duplex flowers, remarkable also for its wavy standard. No other variety has this feature so pronounced; Orchid, probably the finest mauve in cultivation. Was sent out 1913 and has proved universally popular, throws a very large proportion of 4-flower sprays, no variety extant more free flowering; Frank Cartwright, a softer shade of salmon rose than Illuminator, a most beautiful variety; Burpee's New Giant Mauve, a lighter shade than Orchid described above.

In addition to the sweet peas there was a good display of hardy perennials, the Newbold collection of which the veteran John Nisbet had charge deservedly getting the first prize. Joseph Hurley won first in the Japanese iris exhibit with a splendid lot of flowers in beautiful and distinct colors. Gloxinias were also an attractive feature, Axel Lindroth getting the coveted first place.

PHOSPHORUS

A seven inch pot full of **Davidge's Special Phosphorus** mixed with a wheelbarrow of soil, when potting or potting trees when roots are established, a small pot full scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag 1200 lbs. $5.00 Over 500 lbs., at the rate of $40.00 per ton

WILLIAM M. DAVIDGE,
P. O. Box 5. - - Brooklyn, N. Y.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to

B. HAMMOND, - Fishkill-on-Hudson, New York.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
120 W. Lexington St., Baltimore, Md.

Directions on every package

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Nikotiana

Twice as powerful as Tobacco

SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.

All our products are used diluted with water at various strengths, as directed on cans

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity

Aphine Manufacturing Co., Madison, N. J.

M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS

When writing to advertisers kindly mention HORTICULTURE.

SEED TRADE

Charles Massie of Northrup King & Co., Minneapolis, Minn., was elected president of the American Seed Trade Association at its meeting in Cleveland, O., last week.

H. A. Bunyard was in Boston last week, arranging for the annual meeting and exhibition of the American Sweet Pea Society to be held there July 12 and 13.

W. Atlee Burpee, Mrs. Burpee and two sons sail on the Minnetonka of the Atlantic Transport Line on July 5, for a short European trip. Howard M. Earl sailed for Denmark on the S. S. United States on July 3. Mr. Earl expects to be at his desk again about August 4.

Dutch and French Bulb Prospects.

Gt. Van Waveren & Kruijff, of Sassenheim, Holland, write that the crop of white Roman hyacinths is expected to be very bad, consequently prices are running up and orders for large quantities are not accepted.

As to Dutch hyacinths, the bulbs will be very small. The weather was very unfavorable, and made them die very early. The fields do not look in the same condition as they did the same time last year. Prices will be a trifle higher, especially on blue varieties.

Tulips. By the quantity of tulips that were planted last fall it was the general opinion of the Dutch bulb growers that prices this year would run low, but owing to the prospects of the crop at the present time being not at all favorable, it seems that the demand will surpass by far the quantity which will be offered on the market this coming fall.

Golden Spur and Double Van Sion narcissi will be higher in price, but all other varieties will be the same as last year.

CLUB AND SOCIETY NOTES.

The New London Horticultural Society held its annual Rose Show on the 24th inst, in its rooms. There was a good show of blooms including one large vase of Milady shown by A. N. Pierson of Cromwell, Ct. The attendance was good. Next meeting night is July 10th. H. LICKMAN.

The Cook County Florists' Association of Chicago held its regular monthly meeting, June 19th, at which there was a good attendance. The subject of a picnic was discussed and a motion to have one in July was carried, with John Zeck in charge of arrangements. After the business session the bowling prizes were awarded as stated in the last issue.

The schedule of prizes for the fourth exhibition of the American Gladiolus Society to be held in connection with the annual meeting of the society and the Society of American Florists and Ornamental Horticulturists at Minneapolis, Aug. 19-22, has been issued and this, with full information regarding entries and rules, can be had on application to L. Merton Gage, secretary, So. Natick, Mass. Special prizes have been contributed by C. Betscher, B. Hammond Tracy, H. W. Koerner, Vaughan's Seed Store, E. E. Stewart, Peter Henderson & Co., W. Atlee Burpee, M. Crawford, A. H. Austin Co., H. F. Michell Co., Chamberlain & Gage, John Lewis Childs, Arthur Cowee and others.

The first exhibition of the Medford (Mass.) Horticultural Society was held on June 21 in the rooms of the old Magoun Mansion. There was an excellent display of cut flowers, five and six entries being in many of the classes. The quality of the outdoor roses and peonies were as fine as the writer has seen anywhere in New England, and the judges had a hard time in making decisions, competition being so keen. The principal prize winners were: Mrs. D. J. Puffer, Senator Wilton, B. Fay, Mrs. Lester Williams, Mrs. R. Linzee Hall and Mrs. Josiah E. Gates. The attendance was excellent, the rooms being crowded all the afternoon, and the committee in charge feel greatly encouraged for the future welfare of the Society. Mr. Casey of Melrose, Mr. Setson of Boston and Geo. F. Stewart of Medford acted as judges. The next show will be held in September, and intending exhibitors will please communicate with Mrs. D. J. Puffer, chairman of the Exhibition Committee.

GEORGE F. STEWART.

Medford, Mass.

A CORRECTION.

In the report of the American Rose Society judges at Hartford in our issue of last week a misplaced line caused the omission of mention of the rose Dr. Van Fleet, disseminated in 1910 by Peter Henderson & Co. This rose scored 80 points and secured a certificate of merit.

MICHELL'S SEASONABLE FLOWER SEEDS

PANSY SEED (New Crop)

Michell's Giant Exhibition Mixed. A truly Giant strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

GIANT PRIZE PANSIES

In Separate Colors.

Azure Blue, Black Blue, Emperor William, King of Blacks, Lord Beaconsfield, Snow Queen, Striped, White with Eye, Pure Yellow, Yellow with Eye. Tr. Pkt. 40c.; $1.75 per oz.

Also all other Seasonable Seeds and Supplies for the Florist.

PRIMULA CHINENSIS SEED

Alba Magnifica, White	.60	$1.00
Chiswick, Red	.60	1.00
Kermesina Splendens, Crimson	.60	1.00
Rosy Morn, Pink	.60	1.00
Duchess, White, carmine centre	.60	1.00
Holborn Blue	.60	1.00
Michell's Prize Mixture	.60	1.00

PRIMULA OBCONICA GIGANTEA SEED

	Tr. Pkt.
Lilacina, Pale lilac	.50
Kermesina, Crimson	.50
Rosea, Pink	.50
Alba, White	.50
Hybrida, Mixed	.50

CINERARIA SEED

	½ Tr. Pkt.	Tr. Pkt.
Dwarf Grand Prize, mixed	.60	$1.00
Med. Tall Grand Prize, mixed	.60	1.00

HENRY F. MICHELL COMPANY
518 Market Street, - - - Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

TANGLEFOOT
Keeps the Beggars from Ascending
3 lbs. will make a band 6 feet long, 85c. per lb. 10 lbs. $2.65
Wm. Elliott & Sons
42 Vesey St., New York

CHILDS' GLADIOLI
are noted the world over for
SUPERIOR MERIT
John Lewis Childs
FLOWERFIELD, L. I., N. Y.

FLOWER SEEDS

SOW NOW!

AQUILEGIA, Farquhar's Long Spurred Hybrids, Oz. $2.50; ¼ oz. $.75
Coerulea, ¼ oz. .75
Chrysantha, ¼ oz. .30

CAMPANULA MEDIA, Canterbury Bells, Single Blue, White, Pink and Mauve, Oz. $.60; ¼ oz. .20
Cup and Saucer Varieties, Blue, White, Pink and Mauve, ¼ oz. $.75; ⅛ oz. .40

DELPHINIUM, Farquhar's Selected Hybrids, Oz. $1.75; ¼ oz. .50

MYOSOTIS, Alpestris Victoria, Oz. $1.25; ¼ oz. .40

HOLLYHOCK, Chater's Double Crimson, Pink, Purple, Salmon, White and Yellow, Oz. $1.50; ¼ oz. .50
Mixed, Oz. 1.25; ¼ oz. .40

R. & J. Farquhar & Co.

6 & 7 South Market St.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK
Greenhouses:
BOUND BROOK, NEW JERSEY
Seed Ranch:
LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants
114 Chambers St., New York

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

FOTTLER-FISKE-RAWSON CO.

COLD STORAGE
LILIUM GIGANTEUM
and
LILY OF THE VALLEY
From our own Cold Storage Plant
BOSTON

FANEUIL HALL SQUARE

SOW BEGONIAS NOW

My selected strain of **BEGONIA GRACILIS LUMINOSA**, extra large flowered scarlet, and **BEGONIA BEDDING QUEEN**, extra large flowered real pink. These two varieties when sown from now on to the latter part of June will make excellent 4, 5, or 6 inch pot plants for Xmas flowering. They are fine sellers and better keepers than Gloire de Lorraine.

1 Tr. Pkt.....$0.50 6 Tr. Pkt.....$2.50

O. V. Zangen, Seedsman, Hoboken, N. J.

BRASLAN SEEDS

BRASLAN SEED GROWERS CO., Inc.
SAN JOSE, CALIFORNIA

FREESIA BULBS

(Refracta Alba)

No. 1, ½ inch and up, $5.50 per 1000
No. 2, ⅜ inch and up, $3.50 per 1000
Net, F. O. B. Los Angeles, July delivery

ASPARAGUS PLUMOSUS seed $2.00 per 1000 post paid

MORRIS & SNOW SEED CO.
425 South Main Street, Los Angeles, Cal.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St. NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS
Ask for 1913 Catalogues

Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing
Send for price list
E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2159
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

St. Paul, Minn.—Ernest Holmstrom, formerly with Holm & Olson, has leased the Schulze Greenhouses, La Fond St.

Meriden, Conn.—The Blatchley Co.'s store on West Main street was broken into and robbed on Tuesday evening, June 24.

Alfred Whittley, of Max Schling's, New York, sailed with his wife July 1st on the S. S. Kronprinz for a vacation in Germany. He will return the latter part of August.

STEAMER DEPARTURES

Allan.

Corsican, Montreal Liverp'l ..July 11
Ionian, Montreal-London. ....July 13

American.

Philadelp'a, N. Y.-S'hampton July 11
New York, N. Y. S'hampton...July 18

Atlantic Transport.

Minneapolis, N. Y.-London ..July 12
Minnehaha, N. Y. London ....July 19

Cunard.

Franconia, Boston Liverpool July 8
Campania, N. Y. Liverpool. July 9
Ivernia, N. Y. Mediter'n.... July 10

Hamburg-American.

Cincinnati, Boston Hamburg July 12
Pretoria, N. Y.- Hamburg. July 12
Pres. Grant, N. Y.-Hamburg.July 16
Imperator, N. Y. Hamburg ..July 19

Holland-America.

Potsdam, N. Y.-Rotterdam...July 8
New A'st'd'm, N. Y.-R't'rd'm.July 15

Leyland.

Bohemian, Boston-Liverpool.July 12
Winifredian, Boston Liverp'l July 19

North German Lloyd.

Kronp. Cecilie, N. Y. Br'm'n July 8
Pr. der Grosse, N. Y. Bremen July 10
G. Washington, N. Y. Br'm'n July 12
K. W. der Grosse, N.Y.-B'm'n.July 15

Red Star.

Zeeland, N. Y.-Antwerp.....July 12
Finland, N. Y. Antwerp.... July 19

White Star.

Baltic, N. Y. Liverpool ....July 10
Majestic, N. Y.-Southampton.July 12
Canada, Montreal Liverpool. July 12
Adriatic, N. Y. Liverpool ...July 17

NEW FLOWER STORES.

St. Louis, Mo.—J. W. Boerm.

Hartford, Ct.—Milady Flower Shop.

Boston, Mass.—Neil Bros., Federal St

St. Louis, Mo.—Otto Sander, King's Highway.

Waterloo, Ia.—Chas. Sherwood, Lafayette St.

St. Paul, Minn.—C. F. Haupt, 106 Concord St.

Albany, N. Y.—Holmes Bros., 20 Steuben St.

San Jose, Cal.—A. & E. Schlaudt, 144 S. Second St.

Maquoketa, Ia.—Mr. and Mrs. William Thomas, Rice building.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS CO
FLORISTS
1214 F. ST. N.W.
WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344 - 346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Of Interest to Retail Florists

"FLOWERS BY TELEGRAPH."

Leading Retail Florists Listed by Towns for Ready Reference.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons, Broadway and Gratiot Ave.
Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St. and Madison Ave.
New York—Alfred T. Bunyard, 413 Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 West 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

CINCINNATI NOTES.

B. P. Critchell is reported as being very ill at his home in Avondale.

The Cincinnati Cut Flower Exchange will close each day at 5 P. M. during July and August.

Lon. Davis, of P. J. Olinger's leaves on the 12th for Lake Erie to spend a few weeks using the reel and rod.

Visitors: Fred Rupp, Lawrenceburg, Ind.; C. H. Remagen, of the Idle Hour Nurseries, Macon, Ga.; Mr. and Mrs. Humphreys, Zanesville, Ohio; Mr. Winters, Charleston, W. Va.; Mr. Thomas, Augusta, Ky.; Ellis Woodworth, representing the Sefton Co., Chicago, J. Bubach, of Schloss Bros., New York and Mr. and Mrs. Martin Weber, Brookville, Ind.

One of the most creditable exhibits at the Newport show last week was that of Bobbink & Atkins, consisting of bay trees, topiary boxwood, trained ivies, etc. This firm not only imports but they are large growers of boxwood, bays and ivies, the latter being one of their leading specialties.

New York City, N. Y.—The Greek-American picnic will be held at Witzel's Point Grove, on July 9, the boat starting at 9 A. M.

FLORISTS' SUPPLIES
FROM
THE HOUSE OF RICE
Give the Greatest Amount of Satisfaction
Our "Willing Helper" Katalog Tells About Them
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St. Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

During Recess

New York and New Jersey Association of Plant Growers.

The Seventh Annual Outing of this Association was held on June 24th and 25th, at the Hotel Kittatinny, Delaware Water Gap, Pa. A party of fifty-five boarded the special cars on the Lackawanna Limited, leaving Hoboken at 10.15 A. M., and arriving at the Gap at 12.05. After a hearty lunch the afternoon was spent in roaming through the woods and through the various promontories, from which beautiful views were had, and visiting the various lakes and waterfalls. In the evening the prize bowling took place on four very good alleys. The ladies bowled four frames and the four highest scores were as follows: Mrs. Baumann, 58, prize $5; Mrs. Schoelzel, 56, prize $3; Mrs. Schultheis, 48; Mrs. P. Wagner, 42.

The men scored as follows: Anton Schultheis, Jr., 150, prize $5; Anton Schultheis, Sr., 144, prize $3; William Schultheis, 127; William H. Siebrecht, Jr., 124. A dance took place immediately after the bowling and continued until after 1 A. M.

The following morning after breakfast, the party enjoyed a boat ride on the Delaware River through the Gap, and in the afternoon boarded special trolley cars for a trip in the one direction to Stroudsburg and in the other direction to Portland. The party left the Gap at 5.23, arriving in New York shortly after 7, all voting that the outing had been a thorough success, all having apparently enjoyed a very good time.

New York Florists' Club.

The New York Florists' Club happened to select the hottest day of the season for their annual outing, Tuesday July 1. It was broiling in the city and, although it was warm enough everywhere, yet the harbor breezes and the shade of Witzel's Point grove were a most welcome comfort on such a day and it was a record crowd that took advantage of the opportunity to enjoy them.

The coming of the Glorious Fourth on our regular mailing day compels us to get this issue out one day earlier than usual, consequently we are unable to give results of the games or other details of the outing but these will be fully recorded in our next issue.

The annual picnic of the Lancaster (Pa.) Florists' Club will be held at Hershey, Pa., July 15. The club will be the guests of Milton S. Hershey.

ROSE MME. CECIL BRUNNER.

The advertisement of that dainty little rose, Mme. Cecil Brunner, reminds of the time last spring when Mr. McLellan had a box of sprays of this variety sent to New York under the name of Mignon. The flowers came by express all the way from California in wonderful perfection and received unbounded admiration. The success of Irish Fire Flame last season is another convincing evidence of the popular leaning towards these dainty rose buds and the demand that is sure to develop as soon as the growers are in a position to supply them in quantity. They are mighty good stock to invest in.



A MERRY DOZEN.

At the Opening of the Waretown (N. J.) Club House, June 21, 1913.



Reading from Left: R. McKenny, W. F. [illegible], James Dean, Robert Craig, John West, [illegible] W. W. Castle, Walter F. Sheridan, C. H. [illegible], J. K. M. L. Farquhar, [illegible], W. J. Stewart, George C. Watson.

WASHINGTON NOTES.

J. W. Grandy of Norfolk, Va., was in town last week.

Miss Rosie Diedrich, daughter of the late Bernhardt Diedrich, and Harry Helms, of Roanoke, Va., were married on Saturday last in Anacostia, D. C.

The S. S. Pennock-Meehan Company's branch in this city will remain closed all day on Sundays until the fall and the weekday closing hour will be five o'clock hereafter.

Fred H. Kramer has offered to donate a large flower bed and the necessary plants and labor to the town flower garden committee of the Anacostia Citizens' Association which is trying to beautify that section of the district.

Mrs. Mary McCabe, wife of M. J. McCabe, of Anacostia, D. C., and their son John, were thrown from a buggy on Sunday last when their horse ran away on Good Hope road. Neither were seriously hurt. The horse was caught only after the buggy had been demolished.

Charles Scarborough has left the employ of Gude Bros. Company for the [illegible] to his father's farm in New Jersey. Both his parents and his two sisters were last month more or less injured as a result of a collision between their carriage and one of the automobile fire trucks of Camden, N. J.

Z. D. Blackistone, William Marche and O. A. C. Oehmler, a committee of the Florists' Club of Washington have drawn up a resolution recommending the closing of all flower establishments at one o'clock on Sundays during the summer months. It is reported that a number of the florists will agree to such closing although at present it hardly looks as though all would [illegible] the movement.

Florists' Refrigerators

Write us for catalogue and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator, also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

SUMMER GOODS!

Artificial Flowers for Decorative Accessories to Fresh Material, Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

THE Florists' Supply House of AMERICA

1129 ARCH STREET PHILADELPHIA, PA.

CHICAGO NOTES.

Quite a number of florists are planing to go to Minneapolis in their automobiles.

D. E. Freres is recovering from what promised to be a severe case of blood poisoning in his hand, caused by a rose thorn.

Mr. and Mrs. C. L. Washburn left Sunday for their western trip, which includes a month with E. C. Washburn and family at Pasadena.

A. Cronis of Johnson & Cronis planned another trip to Greece this summer, but now says he will defer his visit till fighting there has ceased.

On vacations—Robt. Northam, store manager for George Reinberg; Al. Lehman of E. C. Amling Co.; Geo. Heidenrich of Bassett & Washburn; Jack Byers of Chicago Carnation Co.

Today, June 30th, the last of the stock and fixtures of the old firm of E. H. Hunt were moved from the old quarters at 131 N. Wabash Ave., where for so many years business has been carried on. All that remains now is a division of the proceeds between the creditors.

Al. Fischer has been fortunate enough to win another prize, this time a bride. Al. Fischer and Lillian M. Ellis were married June 25th, and have the best wishes of their friends. The bridegroom is one of the best known of the younger florists and his name for several years has headed the list of prize winners at the bowling contests. This year he won the Cook Co. Florists Association loving cup and several other large prizes.

A jury in Judge Pomeroy's court of the Circuit Court of Cook County at Chicago, has rendered a verdict in favor of The Foley Manufacturing Co., against the City of Chicago for $22,500. This suit was brought to recover damages caused by the C. B. & Q. R. R. in the elevation of its tracks, pursuant to the carrying out of the provisions of a city ordinance passed by the city council, compelling all the railroads to elevate their tracks, which deprived the plaintiff of the use of its switch track, which had permitted the placing at one time for loading or unloading as many as ten carloads and compelling plaintiff to load and unload its cars elsewhere at great loss and inconvenience, etc.

Visitors: Fred Hoekstra of Freyling & Mendel's, Grand Rapids, Mich.; C. B. Knickman of McHutchison's, N. Y.; W. W. Coles, Kokoma, Ind., Chas. Steidle, Olivette, Mo.

ABOUT AFFILIATION.

Apropos the most interesting talk of Messrs. Farenwald and Kasting before the New York Florists' Club it might well be stated that The Florists' Telegraph Delivery will be very much interested in seeing a modification of the dues for the S. A. F. in relation to the various other organizations. It is an essential requirement of The Florists' Telegraph Delivery that each member of that organization be represented in the S. A. F. There are about one hundred and fifteen members of The Florists' Telegraph Delivery now represented in the S. A. F. A reduction of rates for the parent body, say $3.00 for the first fee and $1.50 or $2.00 per year thereafter, would be the welcome solving of a problem. There are hundreds of retailers in the country who would doubtless be willing to join The Telegraph Delivery if it were possible to aid them in that way. No doubt, this will hold true with the Carnation, Rose and other societies and increase the membership much above the fifteen hundred now identified with the S. A. F. The interested members of The Florists' Telegraph Delivery might do well to bear this topic in mind so as to gauge the matter properly at the coming meeting in Minneapolis.

IRWIN BERTERMANN, Pres.,
Florists' Telegraph Delivery.

PHILADELPHIA NOTES.

Arthur Zirkman has just returned from a successful southern trip in the interests of M. Rice Co.

Samuel S. Pennock moved with his family, on June 28th, to Beach Haven, N. J., for the summer months.

Michell's and Dreer's (and probably the other seed houses) will close Thursday night to Monday morning—giving their employees three full holidays for the Fourth. The wholesale flower trade will be open Saturday as their trade is such that a three-days' close down would be rather disastrous.

Visitors: E. Howard Smith and wife, Hazelton, Pa.; George Morrison, Baltimore, Md.; W. C. Langbridge, representing J. B. Rice Co., Cambridge, N. Y.; John Savage, Gwynedd, Pa.; Henry Tischinger, Baltimore, Md.

SUMMER MEETING OF THE MINNESOTA HORTICULTURAL SOCIETY.

It is a very difficult matter to have a successful meeting in many of our western states. Not so in Minnesota. Under the efficient leadership of Secretary Latham there is always a large and enthusiastic attendance. The society serves splendid coffee, and the people bring their dinner and have a good time. The attendance was large. There was a very fine showing of peonies, irises and other perennials. Flowers bloom in exquisite beauty in the cooler moister atmosphere of this state than further south. There was a splendid showing of strawberries, some of them as large as crab apples.

We were saddened this year by the death of the last charter member of this great society of 3000 members—Lyman Eliot,—who for 45 years was foremost in the work of horticulture. He was a kind, faithful man, very lovable in his nature. No man has done more for the advance of horticulture in the Northwest. At the age of 79 he fell dead on the 19th of this month among his flowers. He died in the harness. He was a noble Christian man.

C. S. HARRISON.

Secretary Beneke of the St. Louis Florist Club reports that the kind invitation of Fred Ammann to meet at Edwardsville in July, has been accepted and that the nomination of officers wil take place here July 10th.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

Field Grown Carnation Plants

10,000 Alma Ward

At a special price, ready for early delivery, $7.00 per 100, $65.00 per 1000.

Rose Plants, Ready Now.

BEAUTIES, 2 1-2 inch pots, $8.00 per 100, $70.00 per 1000.
PINK AND WHITE KILLARNEY, 2 1-4 inch pots, $6.00 per 100, $50.00 per 1000.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET, CHICAGO

Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 24			DETROIT June 30			BUFFALO June 30			PITTSBURG June 23		
Am. Beauty, Fancy and Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00	15.00	to	20.00
" " Extra	10.00	to	15.00	15.00	to	20.00	15.00	to	20.00	10.00	to	12.00
" " No. 1	6.00	to	10.00	10.00	to	15.00	8.00	to	10.00	6.00	to	8.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	2.00	to	4.00	2.00	to	4.00
Killarney, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Richmond, Maryland, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Bride, Maid	.....	to	.....	2.00	to	6.00	3.00	to	6.00	.....	to	.....
Hillingdon, Ward, Melody, Extra	.....	to	.....	4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " Ordinary	.....	to	.....	2.00	to	4.00	2.00	to	3.00	.....	to	4.00
Taft, Sunburst	.....	to	.....	3.00	to	6.00	.....	to	.....	5.00	to	8.00
Carnations, Fancy Grade	1.50	to	2.00	.....	to	1.50	1.50	to	2.00	.....	to	3.00
" Ordinary	.75	to	1.00	.....	to	1.00	.75	to	1.00	.....	to	2.00
Cattleyas	.....	to	.....	.....	to	50.00	25.00	to	40.00	50.00	to	60.00
Lilies, Longiflorum	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00	3.00	to	8.00
Daisies	.....	to	.....	.15	to	.25	.50	to	1.25	1.00	to	3.00
Snapdragon	.....	to	.....	.00	to	5.00	2.00	to	4.00	.....	to	.....
Stocks	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Sweet Peas	.15	to	.50	.25	to	.75	.20	to	.50	.50	to	1.00
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.50	1.00	to	1.25
Smilax	.....	to	12.00	.....	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings (100)	.....	to	50.00		to	.....	40.00	to	60.00	35.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	35.00	35.00	to	50.00	35.00	to	50.00

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

176 N. MICHIGAN AVE., BETWEEN RANDOLPH AND LAKE STREETS **CHICAGO**

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.



GLADIOLI

Just the thing for summer display, window decorations or table and indoor work; all good varieties; clear, fine colors and large flowers. **$5.00 per 100. AMERICA**, and other novelties, **$8.00 per 100.**

ASTERS: Splendid quality; pinks, purples and whites; $1.00 to $2.00 per 100; Extra Choice, $3.00 per 100.

CATTLEYAS: $6.00 per doz.

VALLEY: Special, $4.00 per 100; Extra, $3.00 per 100.

MARYLANDS: The best pink summer roses.

	100		100
Special	$8.00	Extra	$5.00
Fancy	6.00	First	4.00
		Second	3.00

HEADQUARTERS FOR GREENS

BRONZE GALAX, $2.00 per 1000. **GREEN SHEET MOSS**, $3.50 per bag.
SPHAGNUM MOSS, 10 bbl. bales, nicely burlapped, each, $3.75; 5 bale lots, $3.50 each; 10 bale lots, $3.25 each.
ASPARAGUS STRINGS, 50c. each.
ASPARAGUS AND SPRENGERI BUNCHES, 50c. each.
ADIANTUM, $1.00 and $1.50 per 100.
SMILAX, 20c. per string. **CUT HEMLOCK**, $2.50 per bundle.
HARDY DAGGER FERNS, best quality, large long fronds, $1.50 per 1000.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies. Small shipments can be sent by Parcel Post at purchaser's risk.

During July and August we close at 5 p. m.

CLOSED ALL DAY JULY FOURTH.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Stree

WASHINGTON
1216 H. Street, N. W.

Flower Market Reports

BOSTON The flower business of this section is down to lowest ebb—probably the dullest week of the year. All occasions calling for the use of flowers are at an end for the season. The growers are still sending in quite freely, however, and the markets are burdened with a surplus for which there is no use and sales are only made at prices that the street fakir is disposed to pay. In fact, it is not a question of prices with the wholesalers—it is only a question of making sales at all. Roses, lilies, carnations and sweet peas are all very plentiful. Summer conditions have come in more abruptly than usual. We hope the resumption of activity will be equally abrupt.

BUFFALO Conditions are much improved since last report and as the ending of June always brings on a little extra business, it was noticed the past week. There were rose festivals, weddings, school commencement work and other social entertainments, and all helped to consume a quantity of flowers. There was no shortage of roses, except possibly good Beauties, though the grand new Milady has taken its place as a leader among hot weather red roses and the demand was good with about enough to supply the demand. Good carnations sold well and there is still some good stock received. Plenty of lily of the valley, orchids, sweet peas, and also some excellent peonies. At the time of mailing report, candidum lilies are in heavy supply. The indoor lily glut has about passed. Prices are back to normal.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON July 3			CHICAGO June 30			ST. LOUIS June 30			PHILA June 30		
Am. Beauty, Fancy and Special	15.00	to	20.00	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	10.00	to	15.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	5.00	to	6.00	6.00	to	8.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	2.00	to	4.00	3.00	to	8.00	4.00	to	6.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Richmond, Maryland, Extra	2.00	to	5.00	6.00	to	8.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	.50	to	2.00	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Bride, Maid	.50	to	4.00	.....	to	...	3.00	to	4.00	.....	to	.....
Hillingdon, Ward, Melody, Extra	3.00	to	6.00	6.00	to	8.00	6.00	to	8.00	4.00	to	6.00
" " Ordinary	.50	to	2.00	3.00	to	5.00	3.00	to	4.00	2.00	to	3.00
Taft, Sunburst	2.00	to	8.00	5.00	to	8.00	8.00	to	10.00	3.00	to	8.00
Carnations, Fancy Grade	.75	to	2.00	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	.50	to	1.00	1.00	to	1.50	1.00	to	1.50
Cattleyas	25.00	to	35.00	25.00	to	40.00	40.00	to	50.00	40.00	to	50.00
Lilies, Longiflorum	2.00	to	4.00	6.00	to	10.00	6.00	to	10.00	8.00	to	12.00
Lily of the Valley	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	2.00	to	4.00	4.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Daises	.50	to	1.00	.50	to	1.00	1.00	to	2.00	1.00	to	1.50
Snapdragon	1.00	to	2.00	3.00	to	5.00	4.00	to	4.00	3.00	to	6.00
Stocks	.75	to	1.00	.....	to	.....	.....	to	.....	.....	to	.....
Sweet Peas	.25	to	.75	.25	to	1.00	.20	to	.35	.50	to	.75
Gardenias	4.00	to	6.00	.....	to	.....	....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	.....	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	10.00	to	15.00	10.00	to	15.00	12.00	to	15.00	12.00	to	15.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	50.00	to	60.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	35.00	to	50.00	25.00	to	35.00	25.00	to	50.00

CHICAGO Summer heat and summer quiet prevails and Chicago wholesalers have their ice boxes full of stock of all kinds. It seems to many as if it were a fortunate matter that the May frost limited the quantity of peonies or there would have been a repetition of last year's experience with that flower. American Beauties are feeling the quiet more than at any previous week this year and the flower which has been all too shy the greater portion of the year is now piling up waiting for customers. Carnations are standing the extreme temperature better than could really be expected. Sweet peas are comparatively scarce. Roses are away ahead of the demand and quantity is fair. Of other things there is plenty of variety.

CINCINNATI The market is rapidly approaching its usual July condition. The rose and carnation cuts are both decreasing. Summer flowers are coming more into prominence each day. This is especially true of gladioli, many very fine spikes of which are being received. The lily supply is on the increase and includes many fine Giganteums and Rubrums. Many pond lilies are coming. The sweet pea season is just about over. Shipping them either in or out of town utterly impossible owing to the excessive heat.

ROCHESTER The state of the flower market this week is somewhat better than reported in last week's issue. Sweet peas in all shades with the exception of lavender, have been quite scarce, and this year there has

(Continued on page)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 / 1463 Madison Square New York

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 / 609 MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel 1519 / 5893 Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 28 1913	First Half of Week beginning June 30 1913
American Beauty, Fancy and Special	8.00 to 15.00	8.00 to 15.00
" " Extra	6.00 to 8.00	6.00 to 8.00
" " No. 1	4.00 to 5.00	4.00 to 5.00
" " Lower Grades	1.00 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 4.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Maryland, Extra	2.00 to 4.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Bride, Maid	.25 to 2.00	.25 to 2.00
Hillingdon, Ward, Melody, Extra	2.00 to 4.00	2.00 to 4.00
" " " Ordinary	.50 to 1.00	.50 to 1.00
Taft, Sunburst	1.00 to 4.00	1.00 to 4.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 23)

been a decided call for these flowers for graduation bouquets. The heat of the past week has caused an influx of roses in a full open condition, with the result that there has been a drop in quality and prices. There are some good American Beauty roses. Carnations are fast going out of crop; they are very soft and quality poor. Easter lilies are very scarce and the same with callas. Lily of the valley is very choice and plenty of it. Rambler roses are in blossom, and also some good gladioli which are disposed of quite readily.

NEW YORK Last week's story of the market situation will fit for the present very nicely. The low tide limit has been reached and it is impossible to go lower. Growers have thrown out their old stock quite generally within the past few days and there is this one satisfaction to the wholesale dealers that they are not encumbered any longer with a lot of material for which no market exists. From now on the receipts will be very small for a time and the buyer will have to take what he can get and be thankful. It is to be expected that prices will now swing back to a normal range. What little stock is being sent in shows the enervating effect of the hot weather.

PHILADELPHIA Conditions in this market were about as good as could be expected for this season of the year, there having been a pretty good clean-up last week and no slashing of prices as was the case for several weeks previous. The receipts of roses were considerably less. The business in these was less also but not so much so as the receipts. The best American Beauties are now coming in from Eastern points and bring from 25 to 30 per cent. more than the locals. Maryland is, as usual, in the lead as the best summer rose in pinks. Richmond very much on the wane. Kaiserin and White Killarney are good and slightly higher in price, as the receipts have not kept pace with the demand. Mrs. Taft is holding the pace better than ever as a popular summer rose. There are still some Rambler sprays around, although they are all past locally. Carnations seem to have improved during the past ten days, both in quantity and quality, and compared with other years at this time are really quite creditable. Early asters are arriving; not very good so far, but that is liable to change any day now. Orchids sluggish, moderate in supply and quality good. Gardenias few and poor. Outdoor gladioli are now commencing; excellent quality, long stemmed, large flowering and nice, clear colors.

ST. LOUIS The less said about the market the better, stock of all kind is coming in poor and extra fancy grades are hard to obtain at present. The extremely hot weather with out any rain for some time has brought about these conditions. For the next two months summer dullness will prevail. A big cut of gladiolus from now on is promised. Asters are poor and sweet peas about done unless we get some good rains in the near future. Stock under glass will from now on be scarce. Prices are in keeping with the quality of the stock.

WASHINGTON Business has dropped off considerably and the supply of cut flowers has shortened up. The roses and carnations that are to be had are as a whole poor in quality. Cattleyas are plentiful and cheap. A moderate quantity of lilies are to be had and these are of good quality. Lily of the valley is quite scarce. Bronze galax leaves are not being received in sufficient quantities and the price has been advanced to $2 per thousand. The gladioli shown in some of the stores are A1.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 28 1913	First Half of Week beginning June 30 1913
Cattleyas	15.00 to 20.00	15.00 to 25.00
Lilies, Longiflorum	1.00 to 2.00	1.00 to 3.00
Lily of the Valley	1.00 to 2.00	1.00 to 2.00
Gladioli	2.00 to 6.00	2.00 to 6.00
Daises	.50 to 1.00	.50 to 1.00
Snapdragon	2.00 to 4.00	2.00 to 4.00
Stocks	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	..... to 1.00	.75 to 1.00
Smilax	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	15.00 to 25.00	15.00 to 25.00

PERSONAL.

Anthony Ruzicka succeeds Samuel Redstone as manager of the Rowayton (Conn.) Greenhouses.

Samuel Redstone, formerly superintendent of the Rowayton Greenhouses, Rowayton, Ct., is now employed in the sales department of Hitchings & Company's New York office.

William Turner, for the last twelve years head gardener for the late B. H. Borden of Oceanic, N. J., and previously head gardener for seven years for William Rockefeller, Tarrytown, N. Y., has through landscape architect John T. Withers of Jersey City, secured the position as general overseer on the estates of Frederick Cromwell and Seymour L. Cromwell at Bernardsville, N. J. Mr. Turner has won fame in the horticultural world through many notable cultural achievements, especially his success in fruit growing under glass, which is fully described in a book which he has written and which is now on the market.

NEWS NOTES.

Walla Walla, Wash.—Fred Young has taken in a partner and the firm will hereafter be known as Young & Lester.

Rochester, N. Y.—Fred W. Vick has disposed of his stock in the Vick & Hill Company and has purchased the greenhouses of the Glass Estate on Ridge Road, which he will remove to his place on Ridgway Avenue and engage in business for himself.

Ithaca, N. Y.—At the last meeting of the Board of Trustees of Cornell University, the work of the Department of Horticulture was divided between the two Departments of Floriculture and Vegetable Culture. Dr. A. C. Beal was appointed Professor of Floriculture, and Mr. Paul Work will be in charge of the work in vegetable gardening.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. • • • • • BOSTON
Telephone, Main 53

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT
R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS
Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2¼-inch, $6.00 per 100, $50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

AUCUBA
Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS
R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

BEGONIAS
O. V. Zangen, Hoboken, N. J.
Begonia Graeilis Luminosa and Bedding Queen.
For page see List of Advertisers.

BOILERS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.
Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

BULBS AND TUBERS—Continued
Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS
R. Vincent, Jr. & Sons Co., White Marsh, Md
For page see List of Advertisers.

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS
F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE
Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS
Frank Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

CHRYSANTHEMUMS
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.
For page see List of Advertisers.

David J. Scott, Corfu, N. Y.

Chrysanthemums, 2¼ in. stock: 500 Yellow Bonnaffon, 200 Halliday, 500 G. Pacific, 200 J. Nonin, 100 Shaw, $2.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

Smith's Advance, 2¼ inch, $2.50 per 100; $22.50 per 1000. R. C., $1.50 per 100; $12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

Chrysanthemums, 2¼-inch. 500 Yellow Bonnaffon, 200 Halliday, 500 G. Pacific, 100 Shaw, $2.00 per 100. Rooted cuttings, 400 Y. Bonnaffon, 400 Pacific, 300 Halliday, 500 J. Nonin, $1.50 per 100. Cash.
CHAS. H. GREEN, Spencer, Mass.

CHRYSANTHEMUMS—Continued
CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL
20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS
Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, $10.00 per 100.
JULIUS ROEHRS CO., Rutherford, N. J.

Cyclamen giganteum, best strain in good assorted colors; good strong plants in 2¼-in. pots, ready to shift, $5.00 per 100; $40.00 per 1000. J. H. FIESSER, Hamilton Ave., Guttenberg, N. J. Cash, please.

DAHLIAS
NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

DRACAENAS
DRACAENA INDIVISA—4-inch, $10.00; 5-inch, $15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

ENGINEERS AND LANDSCAPE GARDENERS
Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 947

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 81 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.

To close out. B. Poitevine, 3 in., 6c. S. A. Nutt, 3 in., 5c. GEO. P. GRIDLEY, Wolfeboro, N. H.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MAD CHESERE, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MARGUERITES

Marguerites, rooted cuttings from Nicholson strain of winter flowering yellow. $3.00 per 100; $25.00 per 1000. PEIRCE BROS., Waltham, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

NURSERY STOCK—Continued

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."

We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's $1 doz. by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Cromwell, Conn.
New Roses.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SALVIAS

Salvias, 2 inch, 3 inch and 4 inch, 2c., 3c. and 5c. WM. DOEL, Pascoag, R. I.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

SEEDS—Continued

J. Oliver Johnson, 1874-76 Milwaukee Ave., Lawn Grass Seed. Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland. Send for Catalogue.

SILKALINE

John C. Meyer & Co., Lowell, Mass.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works, Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock, extra heavy, $14.00 per 100; medium, $10.00 $12.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association. 176 N. Michigan Ave.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

M. C. Ford, 121 W. 28th St., New York.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BODDINGTON'S GIGANTIC PANSIES.

Arthur T. Boddington, 342 West 14th St., New York City.
For page see List of Advertisers.

FARQUHAR'S POT GROWN STRAWBERRY PLANTS.

R. & J. Farquhar & Co., 6 & 7 South Market St., Boston, Mass.
For page see List of Advertisers.

FREESIA BULBS.

Morris & Snow Seed Co., 425 S. Main St., Los Angeles, Calf.
For page see List of Advertisers.

PHOSPHORUS.

William M. Davidge, P. O. Box 5, Brooklyn, N. Y.
For page see List of Advertisers.

THE HIT OF THE SEASON—ROSE MME. CECIL BRUNNER.

E. W. McLellan Co., Inc., 18-20 Lick Place, San Francisco, Calf.
For page see List of Advertisers.

A NEW VOLUME

Vol. XVIII of HORTICULTURE begins with this issue. Now is the time to subscribe. If you are not already on our subscription list, send $1.00 for the coming year, or 50 cents to January 1, 1914.

BE CAREFUL. Horticulture offers no premiums for subscription and has no traveling exploiters. Any who so represent themselves are bunco men.

We do not need to dilate on HORTICULTURE'S worth. Its contents are sufficient evidence. The recognition it is constantly receiving in new subscribers shows the strong hold it has gained in the esteem and good will of the horticultural profession.

Send in Your Name

For List of Advertisers See Page 3

BRITISH HORTICULTURE.

A New Government Departure.

For many years widespread dissatisfaction has been felt amongst those associated with commercial horticulture that so little has been done by the state to further an important industry, compared with what is done by colonial governments. The fruit growers, nurserymen and market gardeners have been heavily assessed for rates and taxes, but they have received no compensating advantages from government aid. The recent establishment of a department of the Board of Agriculture to deal solely with horticultural matters has been welcomed by many leading specialists in this particular branch. Another encouraging step in the right direction is the appointment of a Parliamentary Committee by the Royal Horticultural Society. The committee will be able to represent the interests of the commercial section in any matters which are brought to the notice of the horticultural department of the Board of Agriculture. Several of the most influential men in the trade are assisting and there is every indication that the new department will prove of great advantage in focussing the requirements of the numerous commercial growers of Great Britain.

Perpetual Flowering Carnation Society.

The members of this flourishing society had their second annual dinner in London recently, under the presidency of Mr. J. S. Brunton, of the Horticultural Trade Journal. In responding to the chief toast, the chairman gave an encouraging account of the society, which numbers nearly 500 members. In proposing "The Visitors," Mr. W. Wells gave some interesting impressions of the International Show in New York and gratefully acknowledged the extreme kindness and hospitality received on all sides from his American confreres. The toast was appropriately acknowledged by Mons. Delanay, of Paris, and the Rev. J. Bernard Hall, secretary of the North of England Horticultural Society.

Show of Rhododendrons.

A brilliant show of rhododendrons was made by Messrs. J. Waterer & Sons, at the Royal Horticultural Society's Hall, in London, at the end of May. There was also an interesting display of plans and photographs of some important landscape work which the firm has carried out in Britain and in America. Messrs. Waterer have attained a foremost position in this particular branch of horticultural work. W. H. ADSETT.

We understand that there has been a change made in the management of Hitchings & Co.'s Philadelphia office. Herbert S. Gott, who has been part of the sales force at the New York office for some time, goes to Philadelphia to take charge of the office there on July 1.

OBITUARY.

Frank Wiegand.

Frank Wiegand, son of F. S. Wiegand, proprietor of the Chippewa Falls Greenhouses, Chippewa Falls, Wis., was drowned June 23d in Dead Lake, while attempting to rescue a companion. He was 21 years of age and a graduate of St. Charles School.

Jacob Freduchson.

Died Thursday, June 19, Jacob Freduchson, a native of Denmark, for some time employed in the landscape department of the Panama International Exposition, San Francisco. The cause of death was tuberculosis. Buried at the Cypress Lawn Cemetery, San Mateo, June 24. The deceased was a man of good breeding and a good fellow in every sense of the word. W. E. EGLINGTON.

Mrs. E. G. Uihlein.

Mrs. E. G. Uihlein, whose husband has contributed largely to the success of the Chicago flower shows by large exhibits of orchids, passed away June 27th. The funeral took place from the residence 2021 Ewing Pl., June 30th. Mr. and Mrs. Uihlein's summer house on Lake Geneva is one of its finest on the lake, the grounds comprising a park of great beauty. Their conservatories at Ewing Place are extensive and contain one of the most valuable collections of orchids in this country.

GREENHOUSES BUILDING OR CONTEMPLATED.

Natick, Mass.—John Barr, one house.

Rossville, Md.—John Betz & Sons, one house.

Monkton, Md. — Robert Halliday, range of houses.

West Montreal, Que.—Wm. C. Hall, range of houses.

Valatie, N. Y.—Wm. J. Cramer, range of houses.

South Bend, Wash.—Smith Bros., one house 40 x 200.

Providence, R. I.—W. F. Keach, 312 Morris Ave., addition.

Chicago, Ill. — Thomas Griebler, Moninger house 21 x 150.

Hamilton, N. Y.—Clayton E. Risley, three houses each 18 x 100.

Warsaw, N. Y.—Leonard T. Hain, Jefferson St., house 20 x 100.

Milwaukee, Wis.—A. F. Kellner Co., Auer Ave., two houses each 28 x 150.

Ludwig Station, Pittsburgh, Pa.—E. C. Ludwig Floral Company, range of houses.

Davenport, Ia.—Ludwig Stapp, two 300-ft. Moninger houses; Ewoldt Bros., one Moninger house 30 x 100.

We have several more testimonials recently received from gardeners as to the efficacy of Pino-Lyptol in eradicating weeds from tennis courts, driveways and such places. It does seem to fill the bill as a labor-saving preparation.

The Fir Sawfly (Lophyrus abietis) has been inflicting considerable damage this year about Boston, the Colorado blue spruce being apparently a favored object of attack. The grub eats out the young growths at the tips of the branches in June.

It's a KinG

Improved Flat Rafter Iron Frame GREENHOUSE

With ⅝ in. instead of ½ in. Rafters we can reduce the Depth from 3½ and 4 inches to 3 inches.

Everyfoot of Sunlight means money to you.

Send for Bulletin No. 46 and be convinced.

KING CONSTRUCTION CO.

28 King's Road, N. Tonawanda, N. Y.

"All the Sunlight all day houses."

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in. @	$6.00	500	4	in. @	$4.50
1500	2	" "	4.88	456	4½	" "	5.24
1500	2¼	" "	5.25	320	5	" "	4.51
1500	2½	" "	6.00	210	5½	" "	3.78
1000	3	" "	5.00	144	6	" "	3.16
800	3½	" "	5.80	120	7	" "	4.20
				60	8	" "	3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.

August Rolker & Sons, 31 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

HELP WANTED

WANTED.

A working foreman on a commercial place; address, with reference, SHEPARD'S GARDEN CARNATION CO., 292 Fairmount St., Lowell, Mass., stating wages and what experience in the growing of carnations, lilies and various kinds of potted plants.

FOR SALE

FOR SALE.

Some nice chrysanthemum plants of "Yellow Bonnaffon" and "Pacific Supreme," price $15.00 per 1000. SHEPARD'S GARDEN CARNATION CO., 292 Fairmount St., Lowell, Mass.

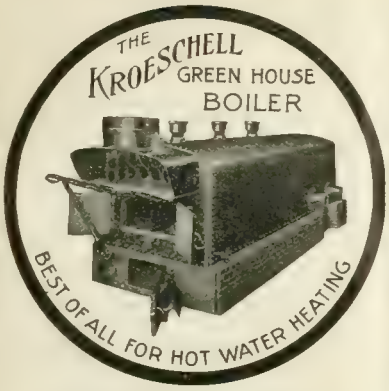
FOR SALE—One Lord & Burnham, 8-section boiler. A1 condition. New set grates. Used one season. W. W. EDGAR CO., Waverly, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Four acres of desirable land, good rich soil, on the main thoroughfare between Boston and Worcester. Also a good cottage house, with sheds, and stable accommodations for 14 horses. Just the place to establish a greenhouse as well as to secure a desirable home. Address T. W. B., care HORTICULTURE.

MISCELLANEOUS

WANTED—To lease with privilege of buying, a small range of greenhouses, with a few acres land and house, near some good Massachusetts town. Address J. E., care HORTICULTURE.



WHAT THE USERS SAY

Cast Iron Boilers Break Down

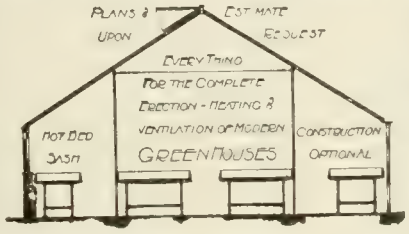
Have fired greenhouse boilers since 1885, both steam and hot water. Yours suits me the best. I have two of your boilers. At one time I had two cast iron boilers working together, and during a blizzard the rear section of one boiler gave out and the front section of the other sprung a crack a couple of months later. No more cast iron boilers for me. I came very close to freezing out in both instances.

G. M. THOST, De Soto, Mo.

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.





DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



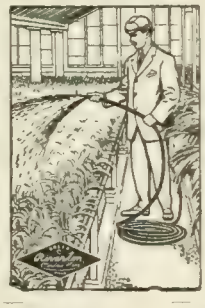
Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



DREER'S
Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N.J.**

A useful Holiday Gift for your friend or employee. A year's subscription for
HORTICULTURE

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

WRITE FOR CATALOGUE AND DISCOUNTS
A. H. HEWS & CO., Inc.
Pearson Street
LONG ISLAND CITY, N. Y.
Main Office and Factories
CAMBRIDGE, MASS.



Started Eight Years Ago with the Single House Below. Last Year We Completed the Balance Scheme.

The Wimpfheimer Group at Long Branch, N. J.

IT was along in 1904 that we built for Mr. Wimpfheimer the single wing house at the left. As a separate house it was complete in itself, and decidedly attractive.

In suggesting the location for it, we considered the possibility of additions, and at that time worked the plan out, much as you now see it completed.

To which you remark: "Why, that's a thing any good builder would do," which is only another way of saying there are precious few good builders.

Time and time again we are called upon to make additions to our competitors' houses, that, do our best, must result in a botch job. A botch, just because no careful planning ahead had been done.

Oftimes we have to install an entire new boiler, or rip out much expensive piping, both of which could have been avoided if planned right.

If you want a firm to do your work, who not only plans best for the present, but the future as well—you want Lord & Burnham.

Put your want in a letter and mail it to us.



Lord and Burnham Company

SALES OFFICES: NEW YORK, 42nd Street Bldg. BOSTON, Tremont Bldg. PHILADELPHIA, Franklin Bank Bldg.
CHICAGO, Rookery Bldg. ROCHESTER, Granite Bldg. TORONTO, CANADA, 12 Queen St., E.
FACTORIES: IRVINGTON, N. Y. DES PLAINES, ILL.

HORTICULTURE

Vol. XVIII. JULY 12, 1913 No. 2

LIBRARY
NEW YORK
BOTANICAL
GARDEN



A Field of the New Hardy Lily, L. myriophyllum.
At Farquhar Nurseries, Roslindale, Mass.

Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, $1.00

STRAWBERRIES

Farquhar's Pot-Grown Plants

NOW READY!

Full Crop Next Summer if Planted Early

Write for our Mid-summer Catalogue of Varieties for July and August Planting

R. & J. FARQUHAR & CO.

BOSTON, MASS.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2½ in pots $2.00 per 100; $25.00 per 1000; 500 or more at 1000 rates.

PRIMROSES OBCONICA AND CHINESE. The very best strains. Strong plants from 2½ in pots $3.00 per 100, $25.00 per 1000.

FRANK OECHSLIN. 4911 Quincy Street, Chicago, Ill.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianæ, per 100, fine type C. Dowiana, C. Gaskelliana, C. Percivaliana, C. speciosissima, C. Schroderiana, C. labiosum, Odontoglossum crispum, O. luteo-Skinneri, Dendrobium Phalænopsis, D. Dearei, D. [illegible]

LAGER & HURRELL, Summit, N. J.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants

MARKET and 49th STREETS, PHILADELPHIA, PA.

GERANIUMS

Our collection of Standard Varieties of Geraniums stands second to none in the country; it contains over one hundred varieties which represents the very best that there is in Geraniums. There is none better. Our stock is the largest and best we have ever had and the prospects are that we shall have an enormous supply for next season's shipment. We are ready to book orders, confident we will be able to give satisfaction in every way. **250,000 Good 2-in Plants Ready for Shipment Now;** $2.00 per 100, $18.50 per 1000.

We invite a critical examination of our stock. Our catalogue is recognized as the **Geranium Blue Book.** 400 Varieties are Accurately Described. Free to the Trade.

SMILAX. Good, strong 2-in. stock, $2.00 per 100, $17.50 per 1000; seed-bed plants, strong, $1.00 per 100, $8.50 per 1000.

VEGETABLE PLANTS

CELERY. Golden Self-Blanching, 40 cts per 100, $2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, $1.00 per 1000. **PARSLEY.** 25 cts. per 100, $1.25 per 1000.

CABBAGE. All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, $1.00 per 1000.

CASH WITH ORDER

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

ROSE STOCK

Mrs. Geo. Shawyer and Milady: $30.00 hundred $250.00 thousand. Pink and White Killarney and Richmond, grafted $20.00 hundred; own root $10.00 hundred.
My Maryland, Lady Hillingdon and Bon Silene, own root $10.00 hundred. Sunburst, $20.00 hundred. American Beauty, $12.00 hundred.

The above stock all from 4" pots and warranted to give satisfaction. A plain unvarnished tale as advertisements go but we always stand back of our goods.

CHAS. H. TOTTY

MADISON, - - - - - N. J.

LIST OF ADVERTISERS

Page
Advance Co.....63
Albany Cut Flower Exchange....56
Allen, J. K.....56
Anderson, S. A...51
Aphine Mfg. Co..47
Aschmann, G.....34
Atlanta Florist Co. 54
Ayres Co., S. Bryson 49

Badgley, Reidel & Meyer 56
Barnard, W. W. Co. 48
Barrows & Son...36
Bayersdorfer, H. & Co.....53
Bay State Nurseries 46
Bloomingdale's ..50
Bobbink & Atkins 46
Boddington, A. T.45
Bolgiano & Son, J. 49
Boston Florist Letter Co.....54
Breck, J. & Son.49
Breck - Robinson Nurseries 46
Breitmeyer's, J. Sons 50
Bryan, Alonzo J.34
Burpee, W. A. & Co. 49

California Florist 51
California Seed Growers' Asso..49
Carbone 51
Chicago Carnation Co.....54
Childs, John Lewis' 48
Clarke's, D., Sons.50
Clark, Everett B. Seed Co.....49
Cooke, Geo. H.. 52
Cowee, W. J.....56
Craig, Robt. Co..34

Dards 50
Davidge, Wm. M.47
Dawson, H. S....46
Dorner & Sons Co. 34
Dreer, H. A.....62
Dunlop, John H..51
Dysart, R. J.....56

Eastern Nurseries 46
Edwards Folding Box Co. 54
Elliott, W. H.....46
Elliott's W., Sons.47
Eppstein, Julius..51
Ernest, W. H.....62
Esler, J. G.....63
Eyres 50

Fairfield Landscape & Nursery Co. 46
Farquhar, R. & J. & Co.....34-49
Felix & Dykhuis..46
Ford, W. P.....56
Forrest, Frank H.51
Fottler, Fiske, Rawson Co.....49

Froment, H. E...56
Framingham Nurseries 46

Galvin, Thos. F..51
Gasser, J. M. Co.51
Goodsell, P. H...46
Grey, T. J. Co...49
Gude Bros. Co...50

Hall Association..63
Hall & Robinson.51
Hammond Paint and Slug Shot Works 47
Hart, Geo. B.....54
Hencock, Jos.....34
Heinecken, Otto..49
Henderson, A.....34
Hess & Swoboda.50
Hews, A. H. & Co. 62
Hilfinger Bros....62
Hitchings & Co.63
Holland Nurseries 46
Holm & Olson....50
Johnson, J. Oliver 48
Johnston Bros....51
Kasting, W. F. Co. 57
Keller, J. B. Sons.50
Kervan Co. 56
King Cons. Co....62
Kramer, F. H....51
Kroeschell Bros..63
Kuebler, W. H...56
Lager & Hurrell..34
Lange, A.....51
Lemon Oil Co....47
Leonard Seed Co.48
Leuthy, A. & Co..36
Loechner & Co...46

MacMulkin, E....51
May & Co., L. L.51
McConnell, Alex..50
McCarthy, N. F. Co. 57
McCray Refrigerator Co.....53
McCullough's Sons Co., J. M. 54
McHutchison & Co. 36
McKenzie, John...34
McManus, Jas....56
Metropolitan Material Co.....63
Michell's Seed House 48
Michigan Cut Flower Ex. ...54
Millang, Chas.....56
Miller, E. S.....49
Montreal Floral Exchange 56
Moore, A. F. 61
Moore, Hentz & Nash 56
Morris & Shaw Seed Co.....49
Murray, Samuel..50

National Nursery Co. 46
N. Y. Stable Manure Co.....47
Neissen, Leo Co..54
Oechslin, Frank..34
Ouwerkerk, P.....46
Park Floral Co...50

Palmer, W. J. & Son 50
Parshelsky Bros..62
Pelicano, Rossi & Co. 51
Penn the Florist.51
Pennock - Meehan Co. 55
Pierce Co., F. O..63
Pierson, A. N....34
Pierson, F. R. Co.36
Pierson U-Bar Co.64
Pine Lyptol Chemical Co....47
Plant Food Co., 20th Century...47
Poehlmann Bros. Co. 54
Pollworth, C. C..50
Pulverized Manure Co.....47

Quaker City Machine Co. 63

Reed & Keller....56
Reinberg, Peter...54
Rice, M. Co.....51
Robinson Co., H. M. 56
Rogers, J. Co....34
Rolf Thomas..34
Rolker A. & Sons 36-62
Rosery, The.....50

Sander & Son.....34
Scott, John.....34
Schling, Max.....51
Sharp Partridge & Co. 62
Shepard's Garden Carnation Co...44
Sheridan, W. F...56
Siebrecht, Geo. C.56
Skidelsky, S. S. & Co. 48
Smith, P. J.....56
Smith & Co., E. D. 36
Smith, W. & T. Co. 46
Smyth, Wm. J...50
Sprague, J. H....47
Stearns, A. T. Lumber Co. ...63
Syracuse Pottery Co. 62

Totty, Chas. H...35
Thorburn, J. M. & Co. 49
Traendly & Schenck 56

Valentine, J. A...50
Van Assche, Leo. 62
Vick's Jas. Sons..49
Vincent, R., Jr., & Sons Co.....35

Wants, For Sale..61
Ward, R. M. & Co.36
Weeber & Don....49
Welch Bros Co...54
Whittier & Co., W. B. 46
Wilson, Robt. G..50
Wood Bros.....46
Woodrow & Marshall 56

Young & Nugent.50
Zangen O. V. ...52
Zinn, J. A.....51
Zvolanek, Ant. C..49

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 58, 59, 60, 61

IT has always been a habit with me to buy the best or nothing.

It is a good habit because you always get your money's worth. The best articles are always known chiefly by a trade-mark or brand. In lily bulbs none are better than Horseshoe Brand. If they were not better than the ordinary kind we could not afford to brand them.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at	$ 6.00	each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"
" 250	" 8-10	at	25.00	"
" 180	" 9-11	at	22.00	"

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

We offer the following stock in fine shape for late trade at watering places and other summer resorts, etc. Stock is in first-class condition.

HYDRANGEA OTAKSA

In bud and bloom for immediate use.

We have a fine stock of potgrown plants in 6-in. and 7-in. pots, just beginning to show color, in fine shape. 50c and 75c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, $2.00 and $3.00 each; extra large specimens in half-barrels at $5.00 and $7.50 each.

GERANIUMS in bud and bloom, extra fine stocky plants in 4-in. pots,—S. A. Nutt, Double Grant, Jean Viaud; also Rose geranium. $8.00 per 100.

CANNAS,—Beaute de Poitevine, Pierson's Premier, Mlle. Berat, L. Patry, etc. Extra heavy plants in 4-in. pots, $5.00 per 100.

CALADIUM ESCULENTUM. Very strong started plants in 5-in. and 6-in. pots, $1.50 per dozen.

HELIOTROPE. 2¼-in. pots, $3.00 per 100; extra strong plants in 3½-in. pots, $6.00 per 100.

SALVIA. 2¼-in. pots, $3.00 per 100.

NASTURTIUMS. 3-in. pots, $4.00 per 100.

COLEUS. Firebrand and assorted varieties in 2¼-in. pots, $3.00 per 100.

MARGUERITES, or **DAISIES,** in bloom. 2¼-in. pots, $4.00 per 100.

LOBELIAS. 2¼-in. pots, $3.00 per 100.

ENGLISH IVY. Large stock of extra strong plants in 3½ and 4-in. pots, good value at $10.00 per 100.

EGG PLANTS. New York Improved. 3½-in. pots, $4.00 per 100.

DRACENA INDIVISA. Very large specimens for center of large vases. Plants 3 ft. high, $2.50 each. Strong plants in 5-in. pots, $3.00 per dozen.

ASPARAGUS PLUMOSUS NANUS. Extra heavy plants in 3½-in. pots, $8.00 per 100.

FINE FERNS FOR SUMMER DECORATION

For Immediate Use.

We have a fine stock of the following varieties in the sizes offered.

ELEGANTISSIMA, 6-in. pots, 50c. each; 8-in., $1.00 each.

HARRISII form of Bostoniensis—the best of all the plain-leaved type,—8-in., $1.00 each; very heavy specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

WHITE KILLARNEY, PINK KILLARNEY, RICHMOND, LADY HILLINGDON, and **KILLARNEY QUEEN.**

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., Tarrytown-on-Hudson, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid.

Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Violets

Of the leaders in cut flower stock, grown extensively for winter production, none probably requires a greater amount of watchful attention and judicious care during our hot and dry summer months than do the violets. The slightest neglect, the least delay or oversight, very often costs the grower dearly. Keep the plants well watered and clean. They should grow without a check and this necessitates faithful watching. Remove every runner. Keep the plants free from diseased or yellow leaves. Watch out for greenfly or other insects; don't wait until they pay a visit, but use fumigation and a weak solution of nicotine regularly to keep them away. A very important matter at this time of the year is to keep the surface of the benches loose by continual scratching. Do not wait for weeds to come, but go over the benches twice a week if possible.

Begonia Gloire de Lorraine and Cincinnati

From now on until fall this begonia will reveal a degree of vigor and rapidity of growth surprising and hardly looked for in the erstwhile fragile striplings. And this should keep the grower on the alert and fill him with anxiety to do his share in the making for a satisfactory finish. As heretofore, careful attention to watering, ventilation and shading is necessary, but sprinkling or syringing overhead and through the foliage, from now on, should be less heavy and frequent, a gentle spraying now and then, in the early morning hours preceding a hot day, being entirely sufficient. A repotting of the fast-advancing plants will be a part of the treatment, admitting of no delay. Better specimen begonias are raised by timely, short shifts, gradually working up to the final size than by long shifts, skipping several sizes at every transplanting. For the last shift a quantity of old, friable manure, easily broken up and pulverized to form about one-fourth of the entire bulk, should be added to the usual mixture of leaf mold, loam and sand. Be sure to give them ample drainage.

Rambler Roses

Crimson Rambler and other Ramblers want watchful care just now. That is, those grown in pots under glass during summer. We often get our hottest weather at the middle of July, and if the tender and unripened shoots of these roses suffer for water mildew will set in, which much weakens the growth and the strength of the eyes which will now be forming. From these eyes come the trusses of bloom that you are looking forward to next spring. Copious watering and daily heavy syringings must be given the Rambler roses. By the end of August they will have made all the growth desirable and can then be stood outdoors to ripen their wood. We then have canes and eyes that are bound to give a truss of bloom at every eye. By plunging the pots in a bench where there is some soil they will retain the moisture better.

Ferns from Spores

Every florist who grows ferns will not do wrong to make a good sowing now of any varieties that he may need. With care and attention it is remarkable how you can work up a fine lot of stock in this way. Pans well drained with lots of crock, on which some moss is spread, filled with a compost of fibrous loam, peat, and leaf mold in equal parts, with enough of sand to insure an open condition are the first requisite. The pans can be filled to within an inch of the top and firmly pressed all over. For the top layer use fine sifted compost, press even and give a good watering. The spores should be scattered evenly all over the surface. All that is needed then is to press the surface over and cover with a pane of glass. Place in a well-shaded house where they can have a genial moist atmosphere. Give common sense attention in keeping them in moist state.

Mignonette

There are several ways in which to start a good plantation of mignonette for next winter's cutting. I have found, after trying several methods, that to sow the seeds where the plants are wanted is still the best course. It is best for the plants and saves a deal of labor also. It is just as easy, with a little forethought and prudent management to have the benches in readiness now as at any time later on. If mignonette is to be grown on benches now taken up by chrysanthemums, it is best to start the seeds a month from now in 3 or 4-inch pots and to transplant into the benches when these are cleared off. A heavy but somewhat gritty loam generally enriched with old manure is a good soil for mignonette. Mark out spaces a foot each way. Let them be an inch or two deeper than the sourrounding level of the soil and thinly scatter six or eight seeds in each depression. Give a good firming and cover with 4-inch pots, these to be removed when the plants are peeping through the soil.

Propagating Ivies

Now is the time to think about the ivies that you may need for baskets, vases and veranda boxes. Any stock now in 3 or 4-inch pots can be planted out in a piece of rich ground where they will make fine growth by the middle of September, when they can be lifted and potted and placed in a frame where they will do fine for six weeks. These can be increased during the winter into stock of 2, 3 or 4-inch pots which make good material for spring sales. This will include vincas and English ivy.

Mr Farrell's next notes will be on the following: Bougainvilleas; Calanthes; Chrysanthemums; Cocos Weddelliana; Planting Carnations; Planning for Next Winter

HORTICULTURE

VOL. XVIII JULY 12, 1913 NO. 2

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Field of the New Hardy Lily, L. myriophyllum.

NOTES ON CULTURE OF FLORISTS' STOCK—Care of Violets—Begonia Gloire de Lorraine and Cincinnati—Rambler Roses—Ferns from Spores—Mignonette—Propagating Ivies—*John J. M. Farrell*..... 37

FRUIT AND VEGETABLES UNDER GLASS—Grapes Shanking—Figs—Syringe or Spray—*George H. Penson* 39

LILIUM MYRIOPHYLLUM..... 40

BRITISH HORTICULTURE—*W. H. Adsett*..... 40

CLUBS AND SOCIETIES—Horticultural Society of New York—Big St. Louis Flower Show—Society of American Florists—St. Louis County Growers' Association—American Rose Society—Minneapolis Florist Club—Club and Society Notes..... 41

NEWS FROM THE CONVENTION CITY—Minneapolis Parks, Lakes and Boulevards, Illustrated—Public buildings of the Twin Cities..... 42

ROBINIAS AND SUMMER MAGNOLIAS—*Arnold Arboretum Bulletin*..... 43

OBITUARY—Charles Hains—Mrs. John Newell—Edward Schumann—James Hutchison—Mrs. M. H. Walsh—Mrs. F. W. Kelsey—Samuel Sibley, portrait.. 44

SEED TRADE—American Seed Trade Association—Crop Conditions—San Francisco in 1915?—Proposed Uniform Exhibition Booths..... 48

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures..... 50

Flowers by Telegraph..... 51

System—New Flower Stores..... 52

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati..... 55

New York, Philadelphia, St. Louis..... 57

MISCELLANEOUS:

Seen at Orleans, Mass..... 40

A Visit to Beverly..... 40

Spot on Gardenia Leaves—*Dr. Geo. E. Stone*..... 40

Missouri Botanical Garden..... 43

Publications Received..... 44

Catalogues Received.....44-57

Prize for Bulb-Digging Machine..... 48

Grassing a Terrace..... 48

St. Louis Notes..... 51

Chicago Notes—Cincinnati Personal Notes..... 52

In Bankruptcy..... 52

News Notes..... 52

Philadelphia Notes..... 53

Incorporated 53

Greenhouses Building or Contemplated..... 53

Patents Granted..... 57

Personal 57

A midsummer reverie

The usual midsummer dullness has settled on the trade and while there may be a slight activity in a few lines, seed business, nursery business and florist business are all in a state of "innocuous desuetude." The principals as well as the employees are away or preparing for their annual vacations. It is surprising what changes can be wrought in a few days away in the mountains where one gets "near to nature's heart." The feverish, hustling and planning gives way to a restful peace, a contented half-drowsy state of feeling which one never knows at seaside resorts excepting in very secluded and carefully chosen spots. Popular seaside resorts do not give rest. They undoubtedly bring change, and if change be what is wanted, with a continuance of excitement and activities, then these resorts are medicine. But in the mountains, amid the woods and lakes, one can hold communion with himself and take off the mask which we nearly all wear before the world, and if he will, can see himself just as he is, and if he has strength of character, can mark each blemish and fault, and resolve to square his life on the lines of a true man when he returns to the activities of the great bustling world.

Quarantine issue misunderstood

Judging from articles which have appeared in the daily newspapers and from comment in certain trade journals there appears to be much misconception regarding the purpose and scope of the gypsy moth and brown-tail moth quarantine notice recently issued by the Federal Horticultural Board. There would seem to be a desire on the part of some to convey the impression that a new and more stringent condition of quarantine against New England nursery and forest products had been imposed but this is not true. The law has not been changed in any material respect from that hitherto in force except that there has been a little extension of the territory quarantined owing to the discovery of the insects in localities outside of the boundaries originally established. So there is no cause for alarm on the part of those directly affected or for joy on the part of those who might think they see in this embargo on certain New England shipments a further business advantage for themselves over the New England dealers.

Where New England benefits

While it cannot be denied that the restrictive laws and regulations referred to in the foregoing seriously affect and hamper the interstate trade of the nurserymen, florists and others doing business within the quarantined territory, there is still another side to the question which should distinctly favor the New England nurserymen. It should be borne in mind that there are other pests than brown-tails and gipsies, among these the elm leaf beetle and San Jose scale, both scourges as bad as, if not worse, than the two notorious moths and for which New England is indebted to her neighboring States. The obligation imposed upon New England by the moth agitation has resulted in a tremendous public and private sentiment against insect pests in general. It is estimated that, in Eastern Massachusetts alone no less than 2,000,000 pounds of poison has been used in spraying during the past two months. The nurserymen have been among the most strenuous workers to get their plantations, as well as adjoining property "clean." Not only gipsy and brown tail but every other vermin have had to take their dose until, today, we believe it to be a fact that the Massachusetts nurseries are the cleanest on this continent, and the sooner the rest of the country gets this fact fixed in their mind the better it will be for their orchards and gardens when they come to buy stock. As to the embargo on forest greens, etc., that is a blessing, if it halts the wanton denuding of our mountain laurels and other native growths. The local call for this material will be as much as our fields and woods can stand. If the rest of the country is forced to look elsewhere for their supply of these things we can endure it.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Grapes Shanking

This is a subject which has taken up space in every horticultural paper devoting a portion of its columns to the work and general management of growing fruit under glass. It could rightly be called a vexed problem of grape growing as the causes are many and very divergent in character, being buried in the constitution of the vine itself. In attempting to discuss it much that has already been said on the subject must of necessity be repeated, as the chief causes of grapes shanking are repeatedly coming to our notice. Sometimes the troubles are to be combated singly while on the other hand it may be a combination of circumstances that we are up against. It is a well-known fact that vines which are "up to their work" as we sometimes remark, are less liable to shank than others that are cropped heavily. Shanking is a disease which finds opportunity to develop by the non-resistance of the berries attacked, weak in constitution and unable to help themselves a little,—a theory that is borne out by the fact that any seedless berries that may have been left in a bunch are generally the first to go. The old adage is still good here, a preventive "cure" being the best, yet in spite of all the care occasionally we find a few shanked berries. Lucky, too, if we can always say "berries" as sometimes a shoulder may go and again a whole bunch will shank so much that it is practically worthless. A very common way for it to act is to affect a few berries through the whole rod. Possible causes are so many that I shall only deal with some of these more frequently met with, the first in prominence being over-cropping. This in itself is responsible for much trouble. A vine is a very willing servant and at the time of reducing the crop it often seems a shame to take away so much of nature's bounty, but in the best interests of the vine and crop, it has to be done. Take into consideration the size of the bunches also, as a large bunch at the time of thinning will be correspondingly large at the time of cutting. Years of over-cropping will so weaken a vine that nothing short of a rest will recuperate it, which must take place with roots and foliage in normal condition. Irregularities of these two vital organs will soon result in the subject under discussion. Make the border right at the start; have the roots under absolute control in well drained soil; water with judgment at all times, taking into consideration the state of the vine and stage of growth. A swelling crop will need a much greater supply of water than a vine will require when resting. Make the border of the best soil procurable with other ingredients to help the roots later on.

Weakened foliage, damaged by insect pests or otherwise, upsets the whole routine of daily functions causing the vine to exist rather than grow. The first thing the disabled "parent" will do under these conditions is to cast off some of the seed (otherwise fruit) it is carrying. Thorough chills or checks will result in the same thing. Some varieties will shank easier than others but it is an unwelcome announcement on any vine. Vines that are continually requested to hold their fruit for a considerable time after it is ripe have a strain on them which may shank a few berries. Needless to say all shanked berries should be removed before leaving the hands of the man who cuts it. Where a rod is shanking a few berries all through have them removed periodically.

Figs

Continue to give the figs a liberal treatment until the third crop has been "harvested." These may be small in comparison to the preceding crops but they will be very sweet and to any one liking this historical fruit a treat will be in store for some little time yet. Plenty of liquid manure will help them along but see that the border is in a right condition to take it. To water a border or tub with stimulant when it is dry is detrimental; first soak it with clear water. Keep after Thrips, Spider and Co. with a well directed force of water.

Syringe or Spray

These are two words we are continually meeting with as we read over any kind of growing details, each denoting that water, insecticide or fungicide is being applied to the subject under discussion. It so happens at times that we find either word used which to a beginner must sometimes be bewildering. To syringe, draws our attention to the instruments that suck in water and expel it by force of hand. These instruments or tools are used exclusively in some establishments in the Old World today and from these the word is copied when using the hose pipe with force with the object of dislodging any insect pests that may be located there. When referring to spraying it is just what the first part of the word denotes, a sprinkling of water, applied in the interest of the plants, not necessarily to the detriment of pests. To spray certain kinds of plants over three or four times daily may be beneficial but to syringe them that often would be to nearly drown them. We speak of the spray from the sea, a gentle mist with no force and so should we not make a correct distinction between the two words in the horticultural world, as we have need of both in their respective places. When spraying with insecticide or fungicide the object is to get a fine spray or mist over all the foliage and wood. After this has done its work follow it up with a syringing of clear water.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

LILIUM MYRIOPHYLLUM.

We have had occasion heretofore to favorably mention this promising introduction from China. Our cover illustration, from a photograph taken this week at the nurseries of R. & J. Farquhar & Co., indicates in a small way how well our predictions of its value have been verified, but no word description or picture can do it justice. One must see it to fully appreciate its character.

With the exception of a few small plants in the foreground which are in their second year from seed, the plants shown in the picture are all from the collected bulbs, many bearing upwards of a dozen blooms. There are several plantations of two-year-old seedlings many of which have thrown a flower, and in the frames one-year seedlings to the number of probably a quarter million are seen. So it is only a question of a short time until there will be plenty of stock to supply the trade.

We believe that as soon as this glorious new lily has been distributed among the florist trade it will quickly take its place as one of the most valuable introductions of recent years either as a garden ornament or a florists' pot plant or cut flower subject. As compared with the universally grown longiflorum the flower opens wider and the golden glow at the base of the petals is very pleasing. The blooms are 6 inches or more across and the individual petals usually from 2 to 2½ inches broad and have a more satiny surface than any other lily we have ever seen, while the outside is strongly tinted red, which shining through gives a faint flush of pink to the whole flower. The anthers are bright orange and a most remarkable characteristic is that they do not shed the pollen on opening, thus relieving of the tedious work of picking off the anthers as has to be done with all other white lilies in order to prevent staining the petals with yellow.

Consider further that this lily is absolutely hardy, healthy and adapted to field culture right here at home, easily raised from seed and blooming in the second or third year. If E. H. Wilson never gave the world another plant he has certainly won out as a benefactor to the American garden and to the American florist with this one discovery.

SEEN AT ORLEANS, MASS.

Wilton Lockwood whose garden at Orleans, Mass. was described in a recent issue of this paper, is proud in the possession of a plant of the genuine Lady Alexander Duff peony, but is watching it with much solicitude in fear that the flower is tending to become more double which would detract from its striking beauty. We noticed particularly a row of the fastigiate English oak Fordii at Mr. Lockwood's place. This tree gives the same effect on the landscape as is obtained with the Lombardy poplar, but is vastly superior in every respect. He has several which appear to have been raised from seed and consequently vary somewhat in habit. The best are some of the original stock obtained from Ellwanger & Barry, absolutely uniform in height and every other particular. These were 6 feet tall when purchased five years ago and are now 25 feet tall—a most rapid growth for an oak, and very desirable for anyone wanting quick results.

A VISIT TO BEVERLY.

The Garden Committee of the Massachusetts Horticultural Society visited the beautiful estate of Mrs. R. D. Evans at Beverly, Mass., on Tuesday, July 8. The owner is abroad but the superintendent, James George, adequately represented her in courteous attention and hospitality. A feast had been set out, the table being spread in the big bay house and the visit thus started off most entertainingly for the visitors.

This estate is superbly located overlooking the broad Atlantic and adorned with noble elms and conifers. An objective point was the extensive Italian garden laid out and planted last year by Messrs. Farquhar of Boston on the place where stood the summer cottage occupied for several seasons by President Taft. The garden has all the features customary in such plantations. Marble statuary, fountains, vases, stately bay trees, and thickly-planted beds with formal edging, etc. Especially effective were the serried ranks of delphiniums and campanulas and here and there a cluster of Lilium myriophyllum added sparkle and spicy aroma to the densely massed herbaceous groups. Tall standard specimens of Frau Karl Druschki roses were placed at regular intervals and at the time of the visit were veritable bouquets of great white blooms.

So pleased was the committee with what they saw that they awarded a gold medal to Mrs. Evans in recognition of her encouragement of horticulture and siver medal to Mr. George for the ability and cultural skill displayed.

SPOT ON GARDENIA LEAVES.

Editor HORTICULTURE:

I would like to know if you could tell the person of this spot and what it is that is on the gardenia leaves. We have a large house of florida and Veitchii. This spot started on the Veitchii and went all through the house. We have some nice young stock coming on and I see the spot is started on them. I will be very pleased to see your report in Saturday's Horticulture. D. C.

Newport, R. I.

I have examined the leaves sent in by Mr. C. and find them to be more or less seriously affected with a fungus known as *Sphaerella Gardeniae* Ell. This appears to be a parasite and is known to affect this plant in its native habitat, but we have never noticed any trouble in the north. While it is believed to be parasitic, we are by no means certain that the infection might not have been caused by some abnormality in the conditions surrounding the plants.

Practically all greenhouse diseases can be controlled by careful handling of the heat, light and moisture, especially the last, for if the spores of the fungus are present, and water is allowed to remain on the plants over night they will have a good chance to germinate and infect the leaves. Syringing on bright sunshiny mornings, when the plants will dry off quickly, does not give the spores a chance to germinate.

I should not advise spraying of any kind for this trouble.

G. E. STONE.

Amherst, Mass.

BRITISH HORTICULTURE.

Some Floral Novelties.

At a recent meeting of the Royal Horticultural Society, awards of merit were given to several interesting new and rare plants. Some details of these exhibits are appended. Papaver Perry's Unique is of miniature growth, of a striking crimson-scarlet, the black blotched petals being lacerated to nearly one half their depth. Paeonia arborea L'Esperance is an excellent semi-double, of a soft yellow tint, with a crimson base, and should prove a useful acquisition to this attractive section. Primula × Excelsior (P. cockburniana × P. Unique); this has handsome blooms of brilliant crimson scarlet, and is likely to receive widespread appreciation. Potentilla Boule de Feu has been produced as the result of a cross between P. argyrophyilla and P. atrosanguinea. The flowers are crimson-scarlet, with silvery foliage. Iris gracilipes has graceful blooms of pale mauve, with an orange blotch, and a pleasing foliage. Delphinium Mrs. F. Brewster has bold flowers of a clear lilac mauve hue. The exhibitors of the foregoing were: A. Perry, Enfield; Kelway & Sons, Langport; Veitch & Sons, Chelsea; H. Hemsley, Crawley, Sussex; the Wargrave Plant warm, Twyford; and R. C. Notcutt, Woodbridge.

A Secretary Honored.

The Rev. W. Wilks, the secretary of the Royal Horticultural Society, has been presented with a testimonial amounting to nearly £700 (pounds) by the Fellows in recognition of his 25 years' valuable service. Mr. Wilks' name will always be perpetuated by his raising of the Shirley poppy named after the Surrey villiage where he has resided for so many years. The raising of this popular bloom has been described as follows by Mr. Wilks: "In 1880 I noticed in a waste corner of my garden abutting on the fields where grew a patch of the common wild poppy, one solitary flower having a very narrow white edging to the four petals. This one flower I market and saved the seed of it alone. Next year out of perhaps 200 plants I had three or four with all the flowers white edged. The best of these were marked and the seed saved, and so on for several years, the flowers all the time getting a larger infusion of white, until they arrived at quite a pale pink, and one plant absolutely white in the petals. I then set myself to change the black central portions of the flower, and succeeded at last in obtaining a strain with petals varying from brightest scarlet to pure white, and with all varieties of flakes and edged flowers, and with golden centres. It would be encouraging to others working on similar lines, but with different subjects, to reflect that the gardens of the whole world are to-day furnished with poppies which are the direct descendants of one single capsule of seed saved in the little vicarage garden of Shirley so late as August, 1880."

W. H. ADSETT.

Pascoag, R. I., July 8th, 1913.
Gentlemen:—Please discontinue my Salvia adv., as I am sold out.—William Doel.

CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition was held on Saturday and Sunday, July 5th and 6th, in co-operation with the New York Botanical Garden, in Museum building, of that institution. Prizes were offered for sweet peas, herbaceous plants, Japanese irises, shrubs and trees, and vegetables. The following are the awards :

Six vases sweet peas, six varieties, 25 of each—Mrs. M. T. Cockcroft, Saugatuck, Ct., gard. Adam Paterson, 1st; Miss B. Potter, Ossining, N. Y., gard. Geo. Wittlinger, 2nd.

Vase of sweet peas, 100 sprays, one or more varieties—John I. Downey, Portchester, N. Y., gard. Thos. Ryan, 1st; Miss M. T. Cockcroft, 2nd.

Collection of herbaceous plants—Mrs. F. A. Constable, Mamaroneck, N. Y., gard. Jas. Stuart, 1st; G. D. Barron, Rye, N. Y., gard. James Linane, 2nd.

Collection of shrubs and trees—T. A. Havemeyer, Glen Head, N. Y., gard. A. Labodny, 1st; G. D. Barron, 2nd.

Six vases Japanese irises, six varieties—Miss M. T. Cockcroft, 1st.

Three vases sweet peas, three varieties, 25 of each—John I. Downey, 1st; Miss M. T. Cockcroft, 2nd.

Twelve different vegetables—Miss B. Potter, 1st.

Six different vegetables—T. A. Havemeyer, 1st.

Special prizes—Miss M. T. Cockcroft, for a vase of gardenias; Max Schling, for a basket of flowers, diploma.

Some time ago an announcement was made of three special prizes for vegetables for the exhibition next November. One of these was offered by M. C. Ebel. It was suggested to Mr. Ebel that in view of the two other vegetable prizes he should transfer his prize to something else. He has consented to do this, and will offer the same amount divided as follows: for a collection of hot-house fruit, $35.00; for two bunches of hot-house grapes, one black and one white, $15.00. The Horticultural Society will offer a second prize of $20.00 for the collection of fruit and a second prize of $10.00 for the grapes.

Remember the date of the next show is October 31st to November 4th, and it is hoped that the local societies will so arrange their dates as not to conflict with this, for the meeting of the National Association of Gardeners takes place at that time at the American Museum of Natural History, and all gardeners in this vicinity will certainly desire to attend.

GEORGE V. NASH, Sec.

BIG ST. LOUIS FLOWER SHOW.

Prof. H. C. Irish and his flower show committee held a meeting last week with the Coliseum management and prepared a preliminary list calling for $8000 in premiums and $2000 for prizes for down-town window decorations. The Henry Shaw premiums of $500 are extra. The show is to be held in the big arena of the Coliseum building in November. The Florist Club meets this week Thursday at Edwardsville, at which these plans will be reported to the committee. From this it appears that St. Louis will this year hold the biggest flower show it ever held.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS' CONVENTION.

Space is being rapidly reserved in the Trade Section of the coming great Convention. The following is a list of firms who have reserved largely of space:—

Frank R. Pierson Co., Robert Craig Co., Raedlein Basket Co., W. W. Barnard Co., Ionia Pottery Co., Pennock-Meehan Co., Aphine Mfg. Co., John C. Moninger Co., John Lewis Childs, Quaker City Machine Works, J. A. Peterson, E. E. Stewart, H. G. Dreyer & Son, A. A. Arnold, H. F. Michell Co., Est. Lemuel Ball, Arthur Cowee, Knight & Struck Co., The Advance Co., Revere Rubber Co., C. C. Pollworth Co., Vaughan's Seed Store, W. A. Manda, H. A. Dreer, A. L. Randall Co., Poehlmann Bros. Co., Richard Vincent & Sons Co., A. Henderson Co., C. E. Critchell, Jackson & Perkins Co., Lord & Burnham Co., Coldwell Lawn Mower Co., M. Rice & Co., Michigan Cut Flower Exchange, H. W. Koerner, E. L. Hedstrom & Co., Hitchings & Co., Perkins-King Co., Castner, Curran & Bullit, Inc., Storrs & Harrison, Charles D. Ball.

JOHN YOUNG,
Supt. Trade Exhibition.

ST. LOUIS COUNTY GROWERS' ASSOCIATION.

The St. Louis County Growers held a meeting on Wednesday night, July 2d, and the attendance was large. Secretary Beneke and Treasurer Smith of the Florist Club were present on invitation. There was a general talk on growing carnations and the different varieties to be used the coming season. There was also a big discussion of the assessments of the Hail Association, in which all were very much interested. Messrs. Beneke and Smith were called upon for a few words. At the conclusion of Mr. Smith's talk he presented the Association with a handsome gold-mounted gavel, which was a big surprise to the members. A discussion then came up relating to the coming fall flower show and all present agreed to contribute a good sum to be given in the name of the Association.

AMERICAN ROSE SOCIETY.

Hartford Rose Garden Tests.

Your judges passed on the exhibits of roses in the test garden at Elizabeth Park, Hartford, Conn., June 28th, and present the following report in addition to the report presented on June 21st:

Test No. 2.—Rosmary, introduced by E. G. Hill Co., 1907. Parentage not recorded. Scored 77.

Test No. 6.—Seedling 562. E. G. Hill Co., Chance seedling. Scored 73.

Test No. 13.—Excelsa, Climbing Wichuraiana Hybrid. Conard & Jones Co., 1909. Scored 90. Certificate of merit.

Test No. 24.—Seedling 392. Parentage, seedling 294 × 266. John Cook, Baltimore, Md. Scored 80. Certificate of merit.

Respectfully submitted,
W. R. PIERSON,
JOHN F. HESS,
Judges by appointment, American Rose Society.

MINNEAPOLIS FLORIST CLUB.

The July meeting of The Minneapolis Florist Club was held Tuesday evening at Rice Brothers' store. The attendance was very large and showed the spirit the trade is taking here in their organization. Theo. Wirth, Chairman of the Convention Association made report of progress of Convention matters. All committees were making exceedingly good headway on their work and everything was practically at completion now.

John Rovik, chairman of the baseball committee for S. A. F. & O. H. reported suits prepared for his team bearing the inscription of the "Minneapolis Florist Club" and the boys were practicing every Thursday evening assuring the club that they would be in readiness for the great event and give the "All Star" team a real taste of baseball.

Letter was read by the Secretary from Wm. F. Gude, Chairman of the Wm. R. Smith Memorial committee and a subscription was voted and immediately forwarded to Mr. Gude.

William Desmond, President of the Club left on a two weeks' vacation to International Falls, Minn., taking the train immediately after the meeting, and the members gave him a send-off for a good time.

CLUB AND SOCIETY NOTES.

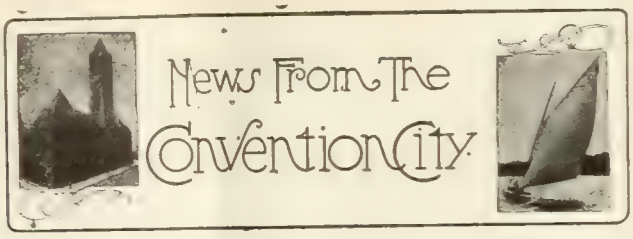
The Canadian Horticultural Association will hold its annual convention at Peterboro, Ont., on August 5, 6 and 7.

Annual meeting of the Cincinnati Florists' Society at the club rooms on Monday, July 14th. All is ready for the Florists' Picnic and outing at Coney Island on Thursday, July 17th. There will be the usual baseball games and bowling. Many florists have arranged for dinner parties at the club house.

At the annual meeting of the American Retail Nurserymen's Protective Association, held during the joint convention of the American Association of Nurserymen at Portland, Oregon, officers were re-elected as follows: President, H. W. Marshall of Marshall Bros., Arlington, Neb.; Vice-President, R. J. Greening of the Greening Nursery Co., Monroe, Mich.; Secretary and Treasurer, Guy A. Bryant of Arthur Bryant & Son, Princeton, Ill.

The regular monthly meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., July 7th. S. W. Carlquist, superintendent for Mrs. Robert Winthrop, was awarded a diploma for an exhibit of Spencer sweet peas, as follows: Andrew Aitken, Nubian, Agricola, Snowdon, Charm, Bolton's Scarlet, Bertrand Deal, May Perret, Mrs. E. Cawdy.

JNO. MAIR, Asst. Sec'y.



MINNEAPOLIS PARKS, LAKES AND BOULEVARDS.

Both Minneapolis and St. Paul are famous tourist cities. Together they have many natural beauties; the chief claim of the Twin Cities lies in their lakes and parks. There are more than one hundred lakes within a radius of twenty-five miles of the Twin Cities.

The principal lakes in Minneapolis are connected and circled by a boulevard, approximately thirty-five miles in length. Every visitor to the city should arrange to spend the two hours required to make the circuit of this boulevard in an automobile. Starting from his hotel, he will be taken past Loring Park, a beautiful tract of thirty-six acres only a few blocks from the business center of the city, thence past the Parade, a playground of sixty-eight acres lying close to Loring Park. The parkway passes the National Guard Armory and Coliseum which faces the parade, and then winds through the Kenwood residence district to the Lake of the Isles. At the right may be seen Cedar Lake, one of the four large bodies of water in that part of the city. The boulevard follows the irregular shore line of Lake of the Isles to Lake Calhoun and takes its course along the east shore of that large body of water. At the right is the famous Calhoun Bath House and the "finest inland bathing beach in America." Sail boats, launches, row boats and canoes dot Lake Calhoun. Leaving Lake Calhoun the boulevard continues through the wooded Interlachen district, separating Lake Calhoun from Lake Harriet, it completely encircles the latter body of water which is one of the most beautiful lakes in the country. The Minneapolis Park Board maintains a band and concerts are given each evening at the pavilion. Leaving Lake Harriet the boulevard skirts the winding course of Minnehaha Creek, passes between Lake Nakomis and Rice Lake to Minnehaha Park. In that park are the Falls of Minnehaha, immortalized by Henry Wadsworth Longfellow in the poem, Hiawatha. Joining Minnehaha Park are the grounds of Fort Snelling, the historic armory region of the frontier days and the Minnesota Soldiers' Home which occupies a magnificent site across the Mississippi River from the Fort. Here the boulevard follows the gorge of the Mississippi River to the Campus of the University of Minnesota, which is one of the famous seats of learning of the continent and well worth a visit. Returning from the University one sees the flour mills of Minneapolis which have a daily capacity of eighty-four thousand barrels. They occupy sites on both sides of the Mississippi River at St. Anthony Falls, the "Cradle of Minneapolis."



Minneapolis Park System—Logan Park Playground

The park system of Minneapolis as it is today is, as before stated, rich in natural beauty, but to Theodore Wirth more than to any other agency is due the bringing out and linking together into a harmonious and accessible whole all the picturesque features of this richly endowed landscape of land and water, for the enjoyment and use of all the people for all time.



Minneapolis Park System—Bathing at Lake Calhoun

PUBLIC BUILDINGS OF THE TWIN CITIES.

When the florists of the United States come to Minneapolis for their National Convention, August 19th to 23rd, they will find in the "City of Lakes and Gardens" and its sister city, St. Paul, a large number of important public buildings. Chief among these, of course, is the magnificent State Capitol in St. Paul, completed a few years ago at a cost of $4,500,000. In Minneapolis the chief public properties are the State University, with its campus of 85 acres bordering on the Mississippi river, and the $3,500,000 City Hall and Court House building.

The State Capitol is built of white marble and has been compared with the Congressional Library at Washington in point of architectural and artistic beauty. Many travelers who have seen both structures do not hesitate to say the Minnesota building surpasses that at the national capital. The tourists will find in the state house paintings by La Farge, Howard Pyle, Kenyon Cox, Guernsey, Blashfield and

others, all arranged to form a symmetrical whole under the personal supervision of Cass Gilbert.

The State Capitol is on the route of the two principal interurban street railway lines connecting Minneapolis and St. Paul. Both these lines lead past or through the campus of the State University. The grounds of the State University are beautiful. Many of the substantial buildings of the university possess rare artistic merit, and all are arranged with the view to providing an artistic whole when the new structures now under construction and contemplated are completed. The university is only 15 minutes' car ride from the center of Minneapolis.

The Court House and City Hall in Minneapolis was built of Minnesota granite. It is one of the most substantial structures in the West and covers a full block. Its tower, which appears in the sky line from almost every part of the city, is one of the distinct features of Minneapolis.

Another public property, to which both Minneapolis and St. Paul justly claim title, is the United States Army Post at Fort Snelling, midway between the two cities and about 40 minutes car ride from each. The reservation site is at the confluence of the Mississippi and Minnesota rivers. The place is one of the most beautiful along the whole course of the Father of Waters. It was from Fort Snelling that the Indian wars of the early days were directed, and the Round Tower erected in 1820 is one of the historic sights of the community. Across the river from the fort is the Minnesota State Home for Old Soldiers and their wives. This place is well worth a visit. It is within walking distance of Minnehaha Falls.

The grounds of the Minnesota State Fair, the largest state fair in America, are located at Hamline, midway between Minneapolis and St. Paul and on the route of the Como-Harriet interurban car line connecting the Twin Cities.

Other public buildings and properties in Minneapolis worth seeing include the National Guard Armory where the convention and novel outdoor exhibit of the Society of American Florists and Ornamental Horticulturists will take place, the City Workhouse which is self-sustaining through its brick plant and other industries, the million dollar filteration plant which provides Minneapolis with drinking water, 100% pure, and the central public library and several of its more important branches.

ROBINIAS AND SUMMER MAGNOLIAS.

Extract from Arnold Arboretum Bulletin No. 46

No other North American tree is so familiar to the people of so many different parts of the world as the False Acacia or Yellow Locust of the Appalachian Mountain forests, *Robinia pseudacacia*, and it is now naturalized in many regions far removed from its native home. No other exotic tree has been so generally planted in northern and central Europe since its introduction into the garden of the Paris Museum in 1636 by King's gardener Robin, whose labors it commemorates; and no other American tree has given rise to such a voluminous literature. The cheerful light green foliage and hanging clusters of fragrant white flowers are known to everyone who has ever looked at trees. The value of the timber which it produces, the rapidity of its growth, its power to adapt itself to different soils and to reproduce itself rapidly by seeds which germinate readily and by stump and root shoots, would make it a most valuable subject for forest and coppice planting in this country if it could be protected from insects, but the value of the Locust is practically destroyed in nearly all parts of the United States beyond the mountain forests which are its home by the borers which riddle the trunk and branches. Owing to the difficulty of keeping the Locust in a presentable condition here no serious effort has ever been made to bring together the interesting varieties or "sports" of this tree which have appeared from time to time in European gardens and are largely planted in European collections of trees. At least thirty of these varieties are now known; the one most often seen in Germany, especially in suburban gardens, is the so-called Parasol Acacia (var. *umbraculifera*). The short branches of this plant form a compact spherical head which is usually grafted on a tall steam of the common Robinis, as in this country a dwarf form of the Catalpa is made into a "standard" by grafting it on a tall stem of the tree form. The only abnormal form of the Robinia thoroughly established in the Arboretum is one of the most remarkable of them all; var. *monophylla*, in which the leaves are reduced to a single broad leaflet.

The two pink-flowered arborescent Robinias, *R. viscosa* and *R. neo-mexicana*, are also subject to attacks by the borer. *R. viscosa*, the Clammy Locust, is not yet in flower but its near relative, the Rocky Mountain species, *R. neo-mexicana*, is now covered with its short clusters of pale rose-colored flowers. More beautiful perhaps than either of these trees is a hybrid of the Rocky Mountain species with *R. pseudacacia*, *R. Holdtii* named for the Colorado nurseryman in whose establishment it appeared a few years ago. This tree is very hardy; it appears to suffer less than its parents from borers, it grows rapidly and plants only a few feet high cover themselves with pale pink flowers. This tree, which is not yet often seen in eastern collections, is an interesting and valuable addition to the rather short list of trees which flower here in early summer.

The latest of the American Magnolias are *M. macrophylla* and *M. glauca*. The former is a medium-sized tree with wide-spreading branches and is distinguished by the fact that of all trees which grow beyond the tropics it has the largest leaves and the largest flowers. The leaves of this remarkable tree are silvery white on the lower surface, from twenty to thirty inches long and from eight to nine inches wide, and the cup-shaped creamy white fragrant flowers are sometimes a foot in diameter. Although an inhabitant of the south, *M. macrophylla* is perfectly hardy in New England, but unless it is planted in sheltered positions the trees often become disfigured by the wind which tears the large delicate leaves. Less showy *M. glauca* is a more valuable plant for general cultivation. Often a large tree in the extreme south, at the north *M. glauca* is never more than a small tree, or more often a large shrub. The leaves are dark green and very lustrous on the upper surface and silvery white on the lower surface; the small, cup-shaped flowers are creamy white and delightfully fragrant, and they continue to open in succession from the middle of June until August. In all North America there is not a more delightful shrub to plant in the garden, or one that will give larger returns in beauty and fragrance; and yet it is difficult to find it in American nurseries, and it is unknown to most American planters of this generation. A hybrid, *M. Thompsoniana*, between *M. glauca* and *M. tripetala*, another American species, is a handsome plant with the general appearance of *M. glauca* but with larger leaves and larger, equally fragrant flowers. Unfortunately it is much less hardy than either of its parents.

MISSOURI BOTANICAL GARDEN.

From the Garden Bulletin, May, 1913.

The building of the new conservatories has called for alterations in the lay-out of the grounds in the vicinity of the old as well as the new range. South of what was formerly the parterre, a large area has been changed from a formal into a natural garden and in a great measure serves to bring into harmony the various elements entering into the present garden plan.

The area to be devoted to the formal gardens, while not less than in former years, will be concentrated near the conservatories. It will consist of two parts, one in front and one in the rear of the new greenhouses. The former, now being installed, occupies almost the same ground as the old parterre, or sunken garden, and is intended primarily as a water garden for the growing of lilies and other aquatic plants. The long axis of this garden lies east and west and its outline is rectangular. The corners of the pool are indicated by four large American hollies that formerly stood around the old observatory to the south. Just outside the walks, surrounding the water garden, are four large gingko, or maidenhair trees, which were planted here this spring to increase the effectiveness of the formal design. At the ends of the pool a semi-circular walk connects, on the one hand, the main gate and on the other the steps to the new conservatories. On each side of the pool, walks lead down to the edge of the water garden and furnish vantage points for the closer inspection of the water lilies. The areas between the banks of the pool and the surrounding walks will be the only ones in the main garden this summer planted with formal designs of bedding plants.

Behind the main range and flanked by the two wings of the new conservatories will be located an elaborate formal garden, Italian in its general effect. Three exits from the new conservatories lead down into this garden, and since all are elevated the effect produced by any plantations here will be more striking than in the old parterre, where only moderate elevation was possible.

Obituary

Charles Hains.

Charles Hains, a gardener working in a Brooklyn (N. Y.) cemetery, was struck by lightning and instantly killed during the storm of Saturday, July 5.

Mrs. John Newell.

Mrs. Newell, wife of John Newell, retail florist at 322 West 125th street, New York, died June 26th, after being run down by an automobile. She was 43 years old and is survived by her husband and son.

James Hutchison.

James Hutchison, a gardner of Pittsburgh, Pa., died last week, aged 84 years. He was born in New York, removing to Pittsburgh 74 years ago For over 40 years he was foreman of the grounds at Allegheny Park.

Edward Schumann.

Edward Schumann, senior member of the firm of Edward Schumann & Sons, Cincinnati, Ohio, died June 29th, aged 67 years. He had been in the florist business for over 25 years, his specialties being violets, pansies and sweet peas.

Mrs. M. H. Walsh.

Abbie Agnes Walsh, wife of M. H. Walsh of Woods Hole, Mass., died at her home in Woods Hole on Sunday, July 6, aged 65 years, 6 months. Mrs. Walsh had been a long time ill but seemed to have improved somewhat during the past winter and hopes were entertained for her recovery. As Abbie Agnes Norton, previous to her marriage to Mr. Walsh she had been a school teacher in Brighton, Mass. She was a refined and educated lady and a great help to Mr. Walsh in his rose work, at home and at the exhibitions in old Horticultural Hall, Boston, where the great fame of Walsh and Walsh's roses was first established and her industry and skill in gathering, selecting, labeling and arranging the superb displays, was no small factor in Mr. Walsh's rose show triumphs.

Mrs. F. W. Kelsey.

The playground movement of Orange, N. J., lost one of its best friends in the death of Mrs. Frederick W. Kelsey on Friday night, July 4, at her home in that city. Mrs. Kelsey's husband is well-known as one of the original members of the Essex County Park Commission. Mrs. Kelsey's death was due to arteriosclerosis, and she had been ill for a long time. For the past twenty-five years she had been a resident of Orange. Mrs. Kelsey worked with other women for the welfare of the Orange Memorial Hospital. She was the originator of the idea of forming the Hospital Auxiliary of Young Women and foremost in its founding. She was active in the Woman's Exchange and had been a member of the Woman's Club of Orange since 1886.

At the last business meeting of the club which was held on May 7, when Mrs. Kelsey was critically ill, she was elected an honorary member of the club, a distinction seldom conferred.

The action of the club was a recognition of the playground work which Mrs. Kelsey inaugurated in behalf of the club. She was the chairman of its playground committee.

Samuel Sibley.

Sam. Sibley, jovial, kindly, popular Sam, has passed away and we feel a keen sense of personal loss and, no doubt, there are many others to whom the news of his death will bring a shock of deep sorrow. Mr. Sibley died at his home in Baltimore, of apoplexy, on June 25. His age was 56 years. He leaves a widow and two married daughters. He was one of



SAMUEL SIBLEY

the best known and best liked seed selesmen. For many years he has represented the Leonard Seed Company of Chicago with loyalty and efficiency and it will be hard to fill his place.

PUBLICATIONS RECEIVED.

New Zealand Association of Nurserymen. Official Trade Register for 1913, and sixth annual report and balance sheet.

Massachusetts Horticultural Society; Transactions for the year 1900; Part 1. This publication contains the horticultural papers and lectures delivered at Horticultural Hall during the winter and spring of 1913, an account of the inaugural meeting, January 1, 1913, etc.

National Chrysanthemum Society (England). The Transactions for the year 1912 and the Schedule of Prizes, List of Members, etc., for 1913, have been published separately. The "Transactions" contain much that the chrysanthemum specialist will find instructive and valuable. The chapter on the new classification of chrysanthemums which the floral committee of this Society has inaugurated is especially interesting as calculated to effect a reform which will, it is hoped, give opportunity for greater variety in our chrysanthemum exhibitions.

Chrysanthemums

Some nice plants of

Yellow Bonnaffon and Pacific Supreme

From two-inch pots, $15.00 per 1000.

Shepard's Garden Carnation Co.

292 Fairmount St., LOWELL, MASS.

Please mention HORTICULTURE when writing

CATALOGUES RECEIVED.

Harrison's Nurseries, Berlin, Md.—A pocket-size list of desirable fruit and ornamental trees.

Bertrand H. Farr, Wyomissing, Pa.—Farr's Quality Bulbs. A complete price list of miscellaneous fall planting bulbs.

Richard Diener & Co., Mountain View, Cal.—Seeds, Bulbs and Plants, Spring 1913. Finely printed and illustrated. Geraniums a leading item.

H. F. Michell Co., Philadelphia.—Midsummer Catalogue. Frontispiece of strawberry Senator Dunlap. Offers a fine line of summer seeds, plants, bulbs and requisites.

Hommo Ten Have, Scheemda, Holland.—Westerwolth's Rye Grass Seed. The contents of this publication will greatly interest seed dealers who issue a farm seed catalogue.

John Lewis Childs, Flowerfield, N. Y.—"Famous Flowers from Flowerfield," the Home of Childs' Gladioli. A very persuasive presentment of the superior merit of the Flowerfield products.

Peter Henderson & Co., New York.—Midsummer Catalogue for 1913. Strawberries form the appropriate cover theme for this excellent publication. The front cover bears as an illustration a tray of strawberry short-cake with "fixins" in tempting colors, to show the possibilities with the new fall-bearing strawberry Americus.

R. & J. Farquhar & Co., Boston.—Midsummer Catalogue for 1913. The introduction to the contents of this book is a basket of strawberries which forms the cover illustration. Pot-grown strawberries, roses, hardy vines and old fashioned flowers in pots for summer planting are the leading topics. Bulbs for early forcing also occupy a place of prominence and the whole is finely illustrated.

Julius Roehrs Co., Rutherford, N. J.—General Catalogue of Hardy Trees and Shrubs, Greenhouse Plants, Orchids, etc. A very handsome publication, as would naturally be expected from this eminent firm. The illustrations are high class throughout and the arrangement, indexing, etc., shows much care in preparation. There is a beautiful full-page insert of Miltonia vexillaria in natural colors; also of Rambler rose Newport Fairy.

Boddington's Gigantic Pansies

Can be produced only from the **giant** strains. Our **CHALLENGE PANSY** seed contains only the **giant self-colors, the giant striped and variegated and the giant blotched,** etc., all carefully mixed in proportion. You could not buy better seed if you paid **$100 per ounce.** Our Challenge Pansy seed during the past season gave unprecedented satisfaction, and every order booked last year was duplicated and increased this year. All the testimonials received mentioned specially the high grade of flowers—color, form and size of the individual blossoms. This year, by adding improved types, intending customers can absolutely rely on a duplication of this season's success with increased satisfaction. Our "mark" for this strain is **"Challenge,"** and it is all the word denotes.

Pansy—Boddington's "Challenge"—All Giants

This mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self-colors, the Giant striped and margined, and the Giant blotched, etc., all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist who has grown it said: "Why don't you call it Defiance?"

½ trade pkt. 25c., trade pkt. 50c., ⅛ oz. 75c., ¼ oz. $1.50, ½ oz. $2.75, oz. $5.00.

BODDINGTON'S QUALITY "ENGLISH" PANSY

A superb strain of highly-colored flowers in great variety and immense size.

Our Mr. Bunyard, while visiting the Royal International Exhibition in London, was much impressed with these blooms, and strongly recommends this mixture to florists.

Trade pkt. (500 seeds), $1.00; ½ trade pkt. (250 seeds), 50c. ¼ oz. $2.25, ½ oz. $4.25, oz. $8.00.

Other Choice Varieties of Giant Pansies

	Tr. pkt.	¼ oz.	½ oz.
Triumph of the Giants. Extremely large flower of beautiful colorings. Should be grown by every florist	$0 50	$2 75	$5 00
	Tr. pkt.	**¼ oz.**	**Oz.**
Boddington's "Challenge" Mixture	$0 50	$1 50	$5 00
Giant Trimardeau. Mammoth-flowering, and in a good range of color	15	50	1 50
Giant Masterpiece (Frilled Pansy). Petals beautifully waved; exquisite colors	25	1 25	4 00
Cassier's Giant. A fine strain of large, highly colored flowers	15	1 25	4 00
Giant Bugnot's Stained. Extra choice flowers, large and plenty of light colors	50		
Giant Madame Perret. A recent introduction by a celebrated French specialist; of strong, free growth	15	85	3 00
Giant Fire King. Brilliant reddish yellow, with large brown eyes	15	75	2 50
Giant Lord Beaconsfield. Deep purple violet, top petals light blue	15	50	1 50
Giant Canary Bird. Ground color is a bright golden yellow and each petal is market with a darker blotch	15	85	3 00
Giant Orchidaeflora, or Orchid-flowered Pansy. Splendid variety; beautiful shades of pink, lilac, orange, rose, terra cotta, chamois, etc	25	1 50	5 00
Giant Emperor William. Ultramarine blue, purple eye	10	50	1 50
Giant Golden Queen. Bright yellow, no eye	15	60	2 00
Giant Golden Yellow. Yellow, brown eye	15	75	2 50
Giant King of the Blacks (Faust). Black	15	60	2 00
Giant President McKinley. Golden yellow, large, dark blotch	15	85	3 00
Giant Prince Bismarck. Yellowish bronze, dark eye	15	75	2 50
Giant Pretiosa. Crimson rose, white margin, violet blotch		1 50	5 00
Giant Rosy Lilac	15	60	2 00
Giant White. Violet spot	10	60	2 00



Challenge Pansy.

NOVELTY PANSIES

	Tr. pkt.
ADONIS. Light blue, with white center	$0 25
ANDROMEDA. Rosy, with lavender tints	25
BRIDESMAID. Giant flowers of rosy white	25
EMPEROR FRANCIS JOSEPH. Pure white, large violet spots	25
MAUVE QUEEN. A delicate mauve Pansy, the lower three petals marked with a large blotch of carmine	25
PSYCHE. Violet, bordered white; beautifully waved petals	25
PEACOCK. All the name implies; a most beautiful vari-colored variety; peacock blue, edged white	25
RUBY KING. Superb crimson and red shades	25
SNOWFLAKE. Pure white; immense flower	25
VULCAN. Giant brilliant dark red, with five black blotches; unique	25

Collection of the above 10 varieties, one packet each, for $2.

Boddington's Giant Pansies to Color

Named Varieties Mixed

For our customers who desire special shades in Pansies we have pleasure in offering the following:

Light Shades, Yellow Shades, Spotted Shades, Striped and Mottled, Dark Shades, Blue Shades, Bronze Shades, Red and Brown Shades. Trade pkt. 25 cts, ¼ oz. $1.00, ½ oz. $1.75, oz. $3.00.

ARTHUR T. BODDINGTON, Seedsman, 342 W. 14th St. NEW YORK

FELIX & DYKHUIS.
HIGH GRADE BOSKOOP NURSERY-STOCK
BOSKOOP-HOLLAND.



FROM HOLLAND FAR, DUTCH LADY HANDS.
TO UNCLE SAM HER FINEST BRANDS.

B. & A. SPECIALTIES
Our World's Choicest Nursery and Greenhouse Products for Florists
PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES
Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.
BOBBINK & ATKINS
Nurserymen and Florists Rutherford, N. J.

To make room for planting will sell out the balance of my Rose Stock at a greatly reduced price
White Killarney Pink Killarney Mrs. A. Ward
Richmond Hillingdon Killarney Queen
American Beauty Kaiserin Augusta Victoria
The Above is all Clean, Healthy Stock
W. H. ELLIOTT, - - - Brighton, Mass.

ROSES
GRAFTED and OWN ROOTS
Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.
Fine Stock from 3 inch pots. Write for Catalogue and Prices.
Wood Brothers
FISHKILL, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING
JAPANESE MAPLES IN POTS
Roses from 6-INCH pots
Send us a list of your wants
P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK
WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.
Our Illustrated and Descriptive Catalogue for the asking
THE BAY STATE NURSERIES, North Abington, Mass.

STRAWBERRIES
POT-GROWN PLANTS
All the Leading Varieties .... for ....
July and August Planting
BRECK-ROBINSON NURSERIES
LEXINGTON, MASS.

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK
W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

THE
National Nurseryman
Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.
National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

Nursery Stock
Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List
W. & T. SMITH COMPANY, Geneva, N. Y.

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.
ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planning, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

HOLLAND NURSERIES
Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.
P. OUWERKERK, 216 Jane St. Weehawken Heights P. O. No. 1, Hoboken, N. J.

The New Sargent Rose
Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.
EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager

When writing to advertisers kindly mention HORTICULTURE.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Horse Stable Manure

NATURALLY ROTTED **DRIED AND GROUND**

HIGH GRADE, IMMEDIATE, NUTRITIOUS and LASTING. CONVENIENT and COMPACT

An odorless natural Manure for use of Florists, Landscape Gardeners, Truck Growers and Farmers, and for general Farming purposes.

For mixing with soil for Potted Plants; for Field Crops; for Grass and Lawns, and for Vegetable Gardens, promoting rapid, steady growth.

PUT UP IN BAGS, 100 LBS. EACH

Descriptive Folder and Prices upon application.

—SOLD BY—

NEW YORK STABLE MANURE CO.

273 Washington Street, JERSEY CITY, N. J.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY
CORRESPONDENCE SOLICITED

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 &29 OCEAN ST., ∴ BEVERLY, MASS.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

PHOSPHORUS

A seven-inch potfull of **Davidge's Special Phosphorus** mixed with a wheelbarrow of soil when planting or potting; then, when roots are established, a small pailful scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag (200 lbs.) $5.00. Over 500 lbs. at the rate of $40.00 per ton.

WILLIAM M. DAVIDGE.
P. O. Box 5. - - Brooklyn, N. Y.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N.J.

TOBACCO DUST

Good old black kind does the work

100 lbs. $2.00

Wm. Elliott & Sons
42 Vesey St., New York

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Roses, Asters, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON **KIL-WORM** POISON

Destroys Worms, Ants &c., Into Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon K. W. [illegible] gallons liquid [illegible] with water.

POISON **KIL-WEED** POISON

Not to be used on Lawns.

[illegible] preparation [illegible] grass, weeds, [illegible] Asters [illegible] gallon K. W. [illegible] will [illegible] gallons [illegible] liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to

B. HAMMOND, - Fishkill-on-Hudson, New York.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

American Seed Trade Association.

Officers were elected at the Cleveland meeting as follows:

President—Charles C. Massie of Northrup, King & Co., Minneapolis, Minn.

First vice-president—W. M. Lupton, of J. M. Lupton, Mattituck, N. Y.

Second vice-president—W. F. Thirkelson, of Storrs & Harrison Co., Painesville, O.

Secretary and treasurer—C. E. Kendel, of A. C. Kendel, Cleveland, O.

Assistant secretary—S. D. Willard, Jr., with A. C. Kendel, Cleveland, O.

Executive committee — Charles N. Page, of Iowa Seed Co., Des Moines, Ia.; L. B. McCausland, of Ross Bros., Wichita, Kan.; Kirby B. White, of D. M. Ferry & Co., Detroit, Mich.; Marshall H. Duryea, of Nungesser-Dickinson Co., New York; F. W. Bolgiano, of J. Bolgiano & Son, Baltimore, Md.

Membership committee—Albert McCullough, of J. M. McCullough's Sons Co., Cincinnati, O.; Arthur B. Clark, of Everett B. Clark Seed Co., Milford, Conn.; J. C. Robinson, of J. C. Robinson Seed Co., Waterloo, Neb.

Crop Conditions.

Crop conditions are much as they were at this time of our last report. Peas are rapidly approaching a state of maturity where something like a fairly good estimate of the crop may be possible. At this time little more of a definite character has developed than we gave a week or two ago. It may be said in a general way that prospects have not improved, and all hopes or fears of a bumper crop must be abandoned this year. Corn has made rapid growth during the past three weeks, and as a whole is looking well, but rain is now badly needed, and if the heat continues without rain, "firing" will probably become general in many sections. Most crops are in need of rain, and the intense heat has had a rather damaging affect on many, though the damage is not believed to be of a disastrous character yet.

San Francisco in 1915?

The suggestion to hold the seedsmen's convention in San Francisco in 1915 and the prospects of a World Congress of Seedsmen is engaging the thoughtful consideration of the leading members of the trade and it is believed a large majority of the association will vote in favor of the general proposition. There are certainly many weighty arguments in its favor and only two against it, though it must be confessed they are weighty—time and expense. In the event that the final decision is in the affirmative, it is likely that few besides actual members will go.

Proposed Uniform Exhibition Booths.

Members of the Canning Machinery and Supplies Association are being canvassed with a view to ascertaining the sentiment of the association toward the uniform or universal booth for their exhibits at the annual convention of the National Canners Association. Nearly all exhibitors at Conventions have now adopted the uniform booth. Much can be said in its favor and very little against it, hence the decision of the Canning Machinery and Supplies Association, composed of practical up-to-date men, is almost certain to be in the affirmative.

PRIZE FOR BULB-DIGGING MACHINE.

(Consul. Frank W. Mahin, Amsterdam, Netherlands.)

The General Society for Bulb Culture, with headquarters: at Haarlem, offers a prize of 1,000 florins ($402) for the best bulb-digging machine. Particulars may be had from the secretary, Spaarne 71, Haarlem, Netherlands. Much importance attaches to this matter, as the vast number of tulip, hyacinth, and other bulbs grown on thousands of acres between Haarlem and Leiden are scooped out of the ground with the hands—a slow and laborious process.

GRASSING A TERRACE.

It is a difficult and expensive thing to do in this land of rainless summers and generally low relative humidity throughout the year. The steeper the terrace, the more tedious and expensive the work becomes. If nothing but a blue grass sod will satisfy the owner of such a piece of ground the expense account will be materially reduced if coarse burlap be tightly stretched and pinned fast over the ground after the seed is sown and left remain. The seed will come through the openings and make a tight sod, the burlap decaying in due course of time, a help, rather than a detriment to the growth of the grass.—*The Pacific Garden.*

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

Michell's Giant Exhibition Mixed. A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

Triumph of the Giants Mixed. Robust grower; flowers of extra large size; many beautiful, rich and rare shades. Half trade pkt., 60c.; trade pkt., $1.00; $1.75 per ¼ oz.; per oz., $6.00.

	Tr. pkt.	Oz.
Bugnot, Odier and Cassier. Superb mixture	$0.50	$4.00
Giant Trimardeau. Mixed	.30	1.25
Mad. Perret. Especially rich in red shades	.50	2.50
Masterpiece. Flowers curled or waved	.50	4.00
Odier or Blotched	.50	3.00
Parisian Large Stained	.40	2.00
Finest English Mixed	.25	1.00

GIANT PRIZE PANSIES

In Separate Colors

Please do not compare these with the ordinary Giant Trimardeau; the seed we offer will produce flowers of much heavier texture.

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

Also all other Seasonable Seeds and Supplies for the Florist. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market Street Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds — Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

FLOWER SEEDS

SOW NOW!

AQUILEGIA, Farquhar's Long Spurred Hybrids, Oz. $2.50; ¼ oz. $.75
Coerulea, ¼ oz. .75
Chrysantha, ¼ oz. .30

CAMPANULA MEDIA, Canterbury Bells, Single Blue, White, Pink and Mauve, Oz. $.60; ¼ oz. .20
Cup and Saucer Varieties, Blue, White, Pink and Mauve, ¼ oz. $.75; ⅛ oz. .40

DELPHINIUM, Farquhar's Selected Hybrids, Oz. $1.75; ¼ oz. .50

MYOSOTIS, Alpestris Victoria, Oz. $1.25; ¼ oz. .40

HOLLYHOCK, Chater's Double Crimson, Pink, Purple, Salmon, White and Yellow, Oz. $1.50; ¼ oz. .50
Mixed, Oz. 1.25; ¼ oz. .40

R. & J. Farquhar & Co.

6 & 7 South Market St.
Boston, Mass.

Sweet Pea Seed

IS MY SPECIALTY

Watch my new winter orchid-flowering type. They will be introduced this season. I have all the colors—over 60.

ANT. C. ZVOLANEK
Greenhouses:
BOUND BROOK, NEW JERSEY
Seed Ranch:
LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS
W. & D.'s AMERICAN SHOW
PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants
114 Chambers St., New York

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

VICK'S GIANT SUPERB PANSY SEED

¼ oz.	¼ oz.	oz.
75c.	$1.35	$5.00

All Leading Named Varieties Pansies. All Varieties of Flower Seeds for Mid-Summer Sowing. Choice Strains.

Write for Special Prices.

Rex Begonias..... $3.00 per C.
Asparagus Sprengeri..... 2.50 per C.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO.
WIZARD BRAND
SHEEP MANURE
PULVERIZED
Cattle Manure
Shredded or Pulverized
See Our Trade List.
BOSTON
FANEUIL HALL SQUARE

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

FREESIA BULBS

(Refrecta Alba)

No. 1, ½ inch and up, $5.50 per 1000
No. 2, ⅜ inch and up, $3.50 per 1000
Net, F. O. B. Los Angeles, July delivery

ASPARAGUS PLUMOSUS seed $2.00 per 1000 post paid

MORRIS & SNOW SEED CO.
425 South Main Street, Los Angeles, Cal.

When writing to advertisers kindly mention HORTICULTURE.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:
J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St. **NEW YORK**

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

—BULBS and— HARDY PLANTS

Contracts made for Seed Growing
E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Narragansett Pier, R. I.—Woodrow & Marketos of New York opened their branch store here last week.

New York, N. Y. — Wertheimer Brothers have removed to their new up-to-date establishment at 19-25 East 24th street.

Texarkana, Ark.—E. L. Kiley succeeds Mrs. E. Aleon in the florist business here, Mrs. Aleon removing to Evansville, Ind.

San Francisco, Cal.—The floral establishment of the California Florist Company was destroyed by fire on the morning of June 27.

STEAMER DEPARTURES

Allan.

Virginian, Montreal-Liverp'l..July 17
Pomeranian, M'treal-London..July 20
Parisian, Boston-Glasgow....July 25

American.

New York, N. Y.-S'hampton..July 18
St. Paul, N. Y.-S'hampton....July 25

Atlantic Transport.

Minnehaha, N. Y. London....July 19
Minneapolis, N. Y.-London...July 26

Cunard.

Caronia, N. Y. Liverpool.....July 16
Ultonia, N. Y.-Mediterran'an..July 19
Laconia, Boston-Liverpool....July 22

French Line.

La Lorraine, N. Y.-Havre....July 17
Niagara, N. Y. Havre.....July 19

Hamburg-American.

Pres. Grant, N. Y.-Hamburg..July 16
Imperator, N. Y. Hamburg...July 19
Amerika, N. Y.-Hamburg....July 23
Pres. Lincoln, N. Y.-Hamb'g..July 24

Holland-America.

New A'st'rd'm, N. Y.-R't'd'm..July 15
Noordam, N. Y.-Rotterdam...July 22

Leyland.

Winifredian, Boston-Liverp'l..July 19

North German Lloyd.

K. W. der Grosse, N.Y.-B'm'n..July 15
K. Wilhelm II, N. Y.-Bremen..July 22
P. Fr. Wilhelm, N. Y. Br'm'n..July 26

Red Star.

Finland, N. Y. Antwerp.....July 19
Lapland, N. Y. Antwerp.....July 26

White Star.

Cymric, Boston-Liverpool.....July 15
Adriatic, N. Y. Liverpool.....July 17
Oceanic, N. Y. Southampton..July 19
Canopic, Boston-Mediter'n....July 19
Megantic, Montreal-Liverp'l..July 19
Celtic, N. Y. Liverpool.....July 24

Charleston, W. Va.—S. A. Gregg has purchased the interest of his partner, H. F. Winter in the Charleston Cut Flower & Plant Company.

Charleston, S. C.—F. W. Kummer, who conducts the Arcade Floral Shop, has moved to 309 King street, a few doors north of his former store.

Brookline, Mass.—F. E. Palmer, florist, announces that he will close his establishment at noon Saturdays through July and August. This includes the store, 220 Washington St., Greenhouses on Newton St., and his outside jobbing department.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
86 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, The Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 B'way.
Detroit, Mich.—J. Breitmeyer's Sons, cor. Broadway and Gratiot Aves.
Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. cor. 44th St. and Madison Ave.
New York—Alfred T. Bunyard, 413 Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 West 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

ST. LOUIS NOTES.

McClusky & Tucker have opened a floral store at 4585 Easton avenue. Both were formerly employed at other stores.

W. S. Wells, late of the Missouri Botanical Garden, and Charles Fullgraf have formed a partnership in the landscape business and will have a downtown office in the Chemical Bldg.

L. Haseman, entomologist and chief inspector for the state, with office at Columbia, Mo., says the new law which went into effect July first calls for every landscape gardener, seedsman, florist and department store, jobber to take out a dealer's certificate. He will supply any one with a copy of the law for the asking.

Everything is in readiness for the Florists' Picnic, which takes place Thursday, July 17, at Romona Park. The club trustees have the affair in charge and all in the trade are invited with their families without any charge. The club pays all expenses. Chairman Osseck says there will be this year special features for the ladies and children and beautiful prizes will be given to all winners. Pelletier's Band has been engaged so don't fail to come or you will surely miss a grand time.

RICE'S
WHEAT SHEAVES
ARE
STANDARD
Guaranteed Uniform in Size and Weight.
They are Hot Weather Accessories You Can't Afford to be Without.
Prices on Request.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

SYSTEM.

A well-regulated and systemized store is something to be proud of at the present day. The running of the largest manufacturing plants in the world has only been attained and kept successful by the little magic word "System." Take this away and everything goes topsy-turvy; all ideas and plans go wrong; nothing is done, nothing accomplished. How can you run a successful flower store without system?

Harmony among the help is very essential, so they will work together in order to keep the system going. If there is discord the system is broken. It is rather hard at the beginning to establish a perfect system, but later on the results begin to show and things commence to look as they should without excitement, upset, noise and the numerous things that happen daily in a florist shop without system.

Suppose you have a store crew—no matter whether it be small or large—the system you establish must be recognized by all your help and the sooner they accustom themselves to it, the easier the work will be and the result is a smooth running establishment where the daily routine is carried out like the running of a fine piece of machinery.

For instance, to start this so-called system, put each employee in his or her proper place and hold them responsible for their share of the work accepting no excuses except sickness or accident. The porter must be held for cleanliness of the inside and outside appearance of the store, the shipper can be held for the delivery, and not for what the porter neglected to do. The window decorator is held responsible for the appearance of his windows; do not blame him if his order was not delivered on time. The one arranging the ice chests must be held for its appearance, and not for anybody else's mistake. Those selected to fill the orders while the routine of morning work is going on, must be responsible for their share of the work also.

Now that each has been assigned to a station in their respective capacities and know what is expected of them each day, there is no blame going to the wrong party, as the system has overcome this. Keep to the system and your help will always respect you for it.

MR. STOREMAN.

NEW FLOWER STORES.

Lansing, Mich.—Lyle Severance.

Charleston, W. Va.—Winters & Son.

Seattle, Wash. — C. Heffner, Pine street and Westlake; Charles Muench, Joshua Green Bldg., Fourth avenue and Pine street.

IN BANKRUPTCY.

Memphis, Tenn. — [illegible] Floral Co.



CHICAGO NOTES.

Roswell Schupp, who had the misfortune to break his arm just above the wrist, is doing nicely, but will not use the arm for some time.

A severe wind storm from Wisconsin which just touched Chicago a week ago broke 1000 lights of glass for O. Sylvester at Oconomowoc, Wis.

The first shipments of freesia bulbs from California came this week and found the spring bulbs scarcely out of the way. The fall season now promises to be a good one in the bulb business.

Leonard Larson has returned to his former place at Rockford, Ill., after a year in the fruit growing district of Washington, where he had an apple orchard at Ashland. He reports prices there too low for profit.

At the annual election of the Chicago Flower Growers' Association, July 7, all the old officers were re-elected. The only change in directors was the election of D. Scheiden of Rogers Park to take the place of Aug. Jurgens.

The Elevated stations are now following the good example of the stores and office buildings and now those hitherto cheerless structures are adorned with occasional boxes of plants. Let the good work go on. The "loop" needs beautifying.

Mr. and Mrs. John F. Kidwell left July 8 for a brief trip to the East, stopping first at Washington, which was Mr. Kidwell's boyhood home and where his sisters still reside. Mr. Kidwell is president and manager of the Chicago Flower Growers' Association and seldom allows himself a vacation.

Mr. and Mrs. J. G. Hancock spent the week end at Starved Rock, the newly acquired state park of Illinois. The gigantic rock, upon which a tribe of Indians starved to death rather than surrender, rises perpendicularly 158 feet, and this natural monument to a departing race was saved from destruction for commercial purposes by the work of Illinois women.

Vacations: H. Rogers is at his old home in Spring Lake, Mich.; Nettie Parker, at Lake Geneva, Wis.; Amy Schultz, in Indiana; Miss Amling, motoring; Bert Phillips will go to Dowagiac, Mich.; Mrs. Chas. Moravek is on an extended trip to the Pacific Coast; at A. Lange's, several are off for vacations. Included are Miss Anderson, Miss Lampert, Mr. Brown, Mr. Wadington and others.

Hoerber Bros. finish rebuilding this week the two houses leveled by the cyclone. The rebuilding includes a $1300 smokestack of reinforced concrete, guaranteed to withstand a wind of 100 miles velocity. This guarantee has been mentioned before, but it is something new to have smokestacks guaranteed by builders and this information may be of real value to parties giving out building contracts.

Visitors: S. W. Kanady, of Denton Seed House, Denton, Tex.; J. W. Furrows, Guthrie, Okla.; Frank Friedley, Cleveland, O.; A. F. Koehle of Texas Nursery Co., Sherman, Tex.; Mr. De Wever, Olivette, Mo.

CINCINNATI PERSONAL NOTES.

Geo. Tromey is recuperating at Martinsville, Ind.

P. J. Olinger was confined to his house for a few days last week.

The carpenters and workmen started this week to remodel C. E. Critchell's place.

Mr. and Mrs. Ed. Fries left Monday evening on a seven weeks' trip to the Pacific Coast.

Visitors—Wm. Gerlach, Jr., Piqua, O., B. H. Klus, Anderson, Ind., and Billy Lodder, Hamilton, Ohio.

NEWS NOTES.

Cumberland, Md.—G. Frank Lippold has sold his florists' plant and retired.

Chattanooga, Tenn. — George B. Haeger has purchased the greenhouses of Mrs. Marietta Hunt.

Madison, Wis. — Mallory & Brown, gladiolus specialists, have sold their business to L. L. May & Co., St. Paul, Minn.

Morris, Ill.—J. H. Rohmer is now sole proprietor of the Morris Floral Company, having taken possession June 1.

Portland, Ind. — W. A. Hart has asked that a receiver be appointed for the Portland Nursery Co. Yount & Ewry have also brought suit on a mechanics' lien against the same concern.

THE NEW SEASON GOODS

Are beginning to arrive. Now, while you have a little let-up, is the time to look them over. We can send you some bewitching samples if you just speak up. There is money this hot weather especially in the use of Artificial Flowers as Decorative Accessories to Fresh Material. We have Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO., The Florists' Supply House of America
1129 Arch St., Philadelphia, Pa.



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St.
553 Lake St., Kendallville, Ind.

PHILADELPHIA NOTES.

Richard Umphried, one of the leading salesmen among the Pennock-Meehan forces, sails for Europe on the Prinz Oscar, July 12th, for a two months' vacation.

Commodore Westcott, Mrs. Westcott, son William, his wife, and grandson Jack, made a strictly family party at Waretown over the Fourth. No outsiders were admitted. This was the family day.

Alfred Cartledge, son of A. B. Cartledge, figures in the local daily papers as a life saver, he having jumped from the yacht he was sailing to save a young lady who had fallen overboard and who was helpless in a hobble skirt.

The Lancaster County Florists' Club will hold their annual picnic this year at Hershey Park on the 15th inst. Samuel S. Pennock and other prominent Philadelphians have been invited to attend and will leave for Lancaster on the 8 A. M. train from Broad Street station.

The retirement of John Burton from the active supervision of his rose-growing establishment is an event worthy of passing notice. His oldest son, George, who has a large rose-growing establishment nearby and in which he has made a notable success, now has charge of the growing and marketing of the products from his father's place. This means a well-earned rest for the father while yet in his prime, and a deserved compliment to the son as a worthy successor.

Visitors: Frank Palmer, store manager, J. Van Lindley Co., Greensboro, N. C.; E. W. Kohr, Lancaster, Pa.; R. Vincent, Jr., Whitemarsh, Md.; Albert O. Stein, San Francisco, Cal. Mr. Stein, who is one of the leaders in the retail trade of 'Frisco, left for Baltimore on the 9th inst., and will return to Philadelphia on the 12th. He informs us we may expect a visit from Dan. McRorie immediately after the convention.

INCORPORATED.

Houston, Tex.—Henk Dirken Floral & Nursery Co., capital stock, $20,000; incorporators, E. P. Daviss, Henk Dirken, E. P. Daviss, Jr., J. L. Russell and A. E. Keisling.

Incorporation papers have been taken out by the Maumee Greenhouse Co., of Toledo, O., with a capital of $15,000. The incorporators are C. W. Mordhoff, E. D. Moore, A. J. Sperber.

Kroeschell Bros. Co. are offering a new patented steam boiler, which it is claimed, combines the best features of the horizontal tubular boiler and great efficiency of the water tube boiler. This heater can be built in units ranging from 100 to 350 horsepower.

GREENHOUSES BUILDING OR CONTEMPLATED.

Fall River, Mass.—Paul de Nave, addition.

Seattle, Wash.—Rosaia Bros., rose [illegible] 40 x 100.

Rochester, N. Y.—William Galentine, one house.

Yankton, S. D.—Gurney Seed Co., range of houses.

Fulton, Ill.—Arthur Still, range of vegetable houses.

Pittsburgh, Pa.—John Bader Company, house 25 x 120.

Logan, Utah.—Cache Valley Floral Co., addition 12 x 50 ft.

Barnard, N. Y.—Charles E. Fry, two Lord & Burnham houses.

Astoria, Ore.—Charles E. Whiton, two houses each 27 x 100.

Nashville, Tenn.—Lischey Nursery & Greenhouses, rebuilding.

Cincinnati, O.—F. E. Steinecker, range of houses, Gray road.

Lafayette, Ind.—F. Dorner & Sons Co., two houses each 30 x 160.

Kansas City Mo.—Geo. M. Kellogg Flower & Plant Co., rebuilding.

Leavenworth, Kan.—Sunnyside Floral Co., 14th and Villas streets, two houses.

Englewood, N. J.—Herman Mamitch, sweet pea grower of Ridgefield, has leased the Lydecker range, comprising about 35,000 sq. ft.

Field Grown Carnation Plants

10,000 Alma Ward

At a special price, ready for early delivery, $7.00 per 100, $65.00 per 1000.

Rose Plants, Ready Now.

BEAUTIES, 2 1-2 inch pots, $8.00 per 100, $70.00 per 1000.
PINK AND WHITE KILLARNEY, 2 1-4 inch pots, $6.00 per 100, $50.00 per 1000.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET, CHICAGO

Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 2.			DETROIT June 30			BUFFALO July -			PITTSBURG July 7		
Am. Beauty, Fancy and Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00	15.00	to	20.00
" " Extra	10.00	to	15.00	15.00	to	20.00	15.00	to	20.00	10.00	to	12.00
" " No. 1	6.00	to	10.00	10.00	to	15.00	8.00	to	10.00	6.00	to	8.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	2.00	to	4.00	2.00	to	4.00
Killarney, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	8.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Richmond, Maryland, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Bride, Maid	.....	to	.....	2.00	to	6.00	3.00	to	6.00	.....	to	.....
Hillingdon, Ward, Melody, Extra	.....	to	.....	4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " " Ordinary	.....	to	.....	2.00	to	4.00	2.00	to	3.00	.....	to	4.00
Taft, Sunburst, Cardinal	.....	to	.....	3.00	to	6.00	.....	to	.....	5.00	to	8.00
Carnations, Fancy Grade	1.50	to	2.00	.....	to	1.50	1.50	to	2.00	.....	to	3.00
" Ordinary	.75	to	1.00	.....	to	1.00	.75	to	1.00	.....	to	2.00
Cattleyas	.....	to	.....	.....	to	50.00	25.00	to	40.00	50.00	to	60.00
Lilies, Longiflorum	6.00	to	10.00	00	to	8.00	8.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00	4.00	to	8.00
Daises	.....	to	.....	.15	to	.25	.50	to	1.25	1.00	to	3.00
Snapdragon	.....	to	.....	2.00	to	5.00	2.00	to	3.00	...	to	.....
Sweet Peas	.15	to	.50	.25	to	.75	.20	to	.50	.50	to	1.00
Gardenias	.....	to	....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.50	1.00	to	1.25
Smilax	.....	to	12.50	.....	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	.....	to	50.00	.....	to	.....	40.00	to	60.00	35.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	35.00	35.00	to	50.00	35.00	to	50.00

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE

Flower Market Reports

BOSTON The midsummer sleep of the flower business still continues, peaceful and undisturbed. It will probably be a couple of weeks before there are any signs of waking up. In the meantime, let everybody get whatever pleasure they can. This does not apply to the trade paper men, however. The less there is going on the harder he must exert himself. Flowers coming to this market are not very great in volume and they certainly are not very high in quality. Some day soon there will be a blyth call from some critical seashore or mountain florist for acceptable goods and then trouble begins. The sleepy carnations, ragged little rosettes called roses and floppy sweet peas seen in the wholesale marts today will not cut much ice with that chap when he wakes up. Beg pardon, there is some really good gypsophila and very decent candytuft to be had, and we know where there are some grand sweet peas.

BUFFALO Summer conditions prevail and business much on quiet basis Carnations and roses show the effects of the hot weather. The retailers carry very little stock and consequently it is up to the wholesalers to assume the heavy load and the surplus is carried along from day to day looking for outlet. The coolers have been loaded not alone with carnations, roses, etc., but lilies were in heavy supply. Outdoor sweet peas have been in heavy receipt and some fine varieties were had which cleaned up only fairly well at low prices.

CHICAGO There is nothing unusual in the market conditions, except that the lack of business is felt more following a very active June. Some extremely hot weather has affected the great bulk of stock and reduces the supply of really good offerings to about what the summer trade requires. The few events that call for really good flowers use up the daily cut and the bulk of that which goes to the sidewalk dealers is worth little more than they receive for it. White roses are very scarce. There are a few good peonies still to be had, and bringing six and eight cents. Next week will about finish them. Orchids are fully up to demand and special low quotations are made on large lots. American Beauties have suffered from the heat, principally in having their size reduced. Carnations are standing up better than often occurs in July. Many wild flowers from the prairies are brought in and frequently sell well. Ferns are selling cheap and stock is not extra good. Regular shipment of colored water lilies are received here from Washington, D. C., and mixed with home grown white ones, make strikingly beautiful effects.

CINCINNATI The ice strike in this city seems to be about over. While it lasted some of the florists were greatly inconvenienced in their efforts to get a satisfactory supply of ice. The market is poor as far as the quantity of receipts is concerned, but the call for

(Continued on page 57)

1914 NEWS

The sensational new Killarney sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any rose of recent years. Booking orders now.



GRAFTED: $7.50 per doz., $35.00 per 100, $150.00 per 500, $300.00 per 1000.

OWN ROOT: $6.00 per doz., $30.00 per 100, $125.00 per 500, $250.00 per 1000.

Delivery during March

Also scions for grafting in 1000 to 5000 lots at $200.00 per 1000. Special prices on larger quantities. *Delivery in December*

MATCHLESS

The splendid new white carnation for 1914. Booking orders now. *Deliveries can be made December, 1913 on the early orders.* $12.00 per 100, $100.00 per 1000.

We guarantee not only the quality of our plants, but their safe delivery by express.

RIBBONS AND SUPPLIES.—Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies.

During July and August we close at 5 P. M.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA	NEW YORK	WASHINGTON
1608-1620 Ludlow St.	117 West 28th St.	1216 H. St., N.W.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON July 10			CHICAGO July 7			ST. LOUIS July 7			PHILA. July 7		
Am. Beauty, Fancy and Special	15.00	to	20.00	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	10.00	to	15.00	20.00	to	25.00	12.50	to	15.00
" " No. 1	5.00	to	6.00	6.00	to	8.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	2.00	to	4.00	3.00	to	8.00	3.00	to	5.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Richmond, Maryland, Extra	3.00	to	6.00	6.00	to	8.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	.50	to	2.00	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Bride, Maid	.50	to	4.00	.....	to	.....	3.00	to	4.00	.....	to	.....
Hillingdon, Ward, Melody, Extra	3.00	to	6.00	6.00	to	8.00	6.00	to	8.00	4.00	to	8.00
" " " Ordinary	.50	to	2.00	3.00	to	5.00	3.00	to	4.00	2.00	to	3.00
Taft, Sunburst, Cardinal	2.00	to	8.00	5.00	to	8.00	8.00	to	10.00	2.00	to	8.00
Carnations, Fancy Grade	.75	to	2.00	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	.50	to	1.00	1.00	to	1.50	.50	to	1.00
Cattleyas	25.00	to	35.00	25.00	to	40.00	40.00	to	50.00	30.00	to	50.00
Lilies, Longiflorum	3.00	to	5.00	6.00	to	10.00	8.00	to	10.00	8.00	to	12.00
Lily of the Valley	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	2.00	to	4.00	4.00	to	6.00	4.00	to	6.00	3.00	to	6.00
Daises	.40	to	.50	.50	to	1.00	1.00	to	2.00	.....	to	.....
Snapdragon	.....	to	.....	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00
Sweet Peas	.15	to	.25	.25	to	1.00	.20	to	.35	.00	to	.75
Gardenias	4.00	to	6.00	.....	to	.....	.....	to	.....	6.00	to	10.00
Adiantum	1.00	to	1.25	.....	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	10.00	to	15.00	10.00	to	15.00	12.00	to	15.00	10.00	to	15.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	50.00	to	60.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	35.00	to	50.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes. by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending July 5 1913	First Half of Week beginning July 7 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Maryland, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Bride, Maid	.25 to 2.00	.25 to 2.00
Hillingdon, Ward, Melody, Extra	2.00 to 4.00	2.00 to 4.00
" " " Ordinary	.50 to 1.00	.50 to 1.00
Taft, Sunburst	1.00 to 4.00	1.00 to 5.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED. THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY

BUY
BOSTON
FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 55)

stock is tolerably good. On Monday the buyers grabbed everything in sight. This condition may only have been for the day and it may be for a longer time for on the opening day of the week at this time of the year there is little to be had but stock from local growers. On Tuesday outside shipments arrive. Last week began with a very large supply and ended with a light market. If the present call keeps up unless receipts increase considerably, the market is bound to be in a more or less tight condition. Asters are due to come in this week. Pond lilies are plentiful. The cut of smilax is at present rather short.

NEW YORK

When it comes to reporting the New York wholesale market, the stereotyped form is to refer to the awful condition presented last week and then assure the reader that it is still worse this week. Keeping that system up for a succession of weeks is bound in time to exhaust one's vocabulary of words to describe the woeful state of affairs. Still, the great trio—grower, wholesaler and retailer—seem to pick up a very fair existence and a few of them, at least, manage to own high-power automobiles without visibly crippling their resources and no doubt all will survive the present "worst ever" conditions and come to the scratch alert and well-groomed when the next whistle blows. We acknowledge we haven't here revealed much about the market and what it offers. But if you want anything real good in New York flowers just telegraph or write us and we'll tell you where you can get them.

PHILADELPHIA

Hardly worth reporting. Many of the retail stores closed for three days—so that the last week wasn't really a week. About all that can be said is that the business done was about as good as could be expected. Early cosmos has appeared, also single tuberoses. The asters are fair, but short stemmed. Good lilies have a good demand. About nine hundred out of every thousand roses received from the growers are poor stock and have to go in the discard for little or nothing. Gladioli are very good and one of the best sellers on the market. This will probably continue until the bulb people butt in with their short-stemmed, cheap flowers. Centaurea imperialis is very fine at present—pink, lavender and white. Kaiserins are the best in white roses and at that they are nothing very extra.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending July 5 1913	First Half of Week beginning July 7 1913
Cattleyas	15.00 to 30.00	15.00 to 30.00
Lilies, Longiflorum	1.00 to 2.00	1.00 to 3.00
Lily of the Valley	1.00 to 2.00	1.00 to 3.00
Gladioli	2.00 to 6.00	2.00 to 6.00
Daises	..... to .50	..... to .50
Snapdragon	2.00 to 4.00	2.00 to 4.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

ST. LOUIS

The market is in anything but good condition as far as quality of the stock is concerned. Among the retailers extreme dullness now reigns. The wholesale houses afford roses in plenty of the Killarney type but of poor quality and very short stems. There are plenty of asters and carnations coming in and these, too, show the effects of the hot weather. Sweet peas are very poor, Easter lilies fine and selling well, and gladioli have a good demand. Fancy ferns are again easy.

CATALOGUES RECEIVED.

Herbert V. Pearce, Detroit, Mich.—Descriptive pamphlet of the Pearce Return Steam Traps.

M. Herb, Naples, Italy.—General Catalogue of Bulbs and of Seeds for Autumn Sowing. Printed in three languages.

A. G. Greiner, St. Louis, Mo.—General Price List of Cacti, Euphorbias and Succulents. A very extensive list of these odd plants.

The Hercules Powder Co., of Wilmington, Del., have issued an 80-page book, well illustrated, under the title of Progressive Cultivation Facts for Farmers. It deals with the digging of ditches and drains, breaking up hard pan and clearing lands of stumps and boulders by the use of dynamite. As a medium for publicity and business getting it seems to fill the bill, but it contains also very much of otherwise instructive value on agricultural and horticultural lines.

Little Ads Bring Big Returns

Little ads. in our Classified Calumns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

Personal

The conservatories of C. M. Jarvis of Berlin, Ct., will be closed after July 18th.

A. Leuthy of Roslindale, Mass., sailed for France on La Provence, Thursday, July 10.

Percy E. Hicks formerly at Longshore Farm Saugatuck, Conn., is now located at Oceanic, N. J.

Martin Samtman, of Myers & Samtman, Chestnut Hill, Philadelphia, left last week on a visit to Germany.

Charles A. Dards, of Madison avenue and 44th street, New York City, sailed for Europe June 28th on the Carmania.

T. R. Mullins, formerly gardener for C. M. Jarvis, Berlin, Ct., is now employed by R. B. Viets, New Britain, Ct.

Charles Russell of the Jones-Russell Company, Cleveland, Ohio, and Miss May McGorray, were married on June 30th.

Edgar A. Nock is contemplating the purchase of a large farm in East Providence, R. I., and erecting a large range for the growing of orchids.

P. Welch of Boston has gone to Old Orchard Beach for the summer. A few days after he had closed up his home in Dorchester, the the house was slightly damaged by fire, evidently the work of an incendiary.

H. V. F. de Thestrup has resigned his position as superintendent of the Yonkers (N. Y.) Nursery Co., and accepted to take charge of the private estate at Shelter Island, N. Y., known as Never-Never-Land Farm.

Mrs. J. B. Freeman, successor to George A. Heinl, of Toledo, Ohio, and Walter H. Crause of Cincinnati, were married June 30th. Mr. Crause will go into business with his wife, but the firm name will remain unchanged. 30th.

Boston visitors—Dr. George E. Stone, Amherst, Mass; Wm. Cotter, Montreal, P. Q.

PATENTS GRANTED.

1,065,417. Apparatus for Forming Benches for Greenhouses. John Wilson, Short Hills, N. J., assignor by direct and mesne assignments, to Wilson-Hoyt Company, Short Hills, N. J., a Corporation of New Jersey.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT
R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS
Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASPARAGUS HATCHERI is the Asparagus that will get you the most money. Start right by ordering direct of the introducer. Heavily rooted, 2¼-inch, $6.00 per 100, $50.00 per 1000. JOHN C. HATCHER, Amsterdam, N. Y.

ASTERS
Asters—Semple's, in separate or mixed colors, fine plants, 50c. per 100; $4.00 per 1000. Cash. LESTER'S PLANT FARM, W. C. Lester, Mgr., Plainville, Conn.

AUCUBA
Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS
R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.

BEGONIAS
O. V. Zangen, Hoboken, N. J.
Begonia Graeilis Luminosa and Bedding Queen.
For page see List of Advertisers.

BERRIED PLANTS
Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXWOOD TREES
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING
Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS.
Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Morris & Snow Seed Co., 425 S. Main St., Los Angeles, Calf.
Freesia Blubs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS
R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS
F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE
Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS
Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Breck-Robinson Nurseries, Lexington, Mass.
Hardy Chrysanthemums.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CHRYSANTHEMUMS—Continued
Chrysanthemum Rooted Cutting, 300 G. Pacific, 50 Jones, 150 Merry Xmas, 25 Nivens, $1.50 per 100. 2¼ inch pots: 25 Shaw, 175 Halliday, 300 G. Pacific, $2.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

Smith's Advance, 2¼ inch, $2.50 per 100; $22.50 per 1000. R. C., $1.50 per 100; $12.50 per 1000. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

COCOANUT FIBRE SOIL
20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS
Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, $10.00 per 100.
JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS
NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

DRACAENAS
DRACAENA INDIVISA—4-inch, $10.00; 5-inch, $15.00 per 100. Heavily rooted, ready for immediate shipment. JOHN C. HATCHER, Amsterdam, N. Y.

ENGINEERS AND LANDSCAPE GARDENERS
Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City
For page see List of Advertisers.

FERNS
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York
For page see List of Advertisers.

For List of Advertisers See Page 35

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

William M. Davidge, P. O. Box 5, Brooklyn, N. Y.
Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.

HOLLYHOCKS

Breck-Robinson Nurseries, Lexington, Mass.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MAD CHESERE, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tanglefoot.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

NURSERY STOCK—Continued

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES by the PERSTEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delachei, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Duchesse, etc., [illegible] Standard sorts at the lowest seedlings, mixed made and divided. Not less than ten stems of a kind at these prices. We can furnish any [illegible] wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

"PEONIES FOR PLEASURE."
This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."
We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.
Our catalogue of everything you need mailed on application. Write for it today.
THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's $1 doz. by exp., $1.25 by mail. I. N. KRAMER & SONS. Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers

ROSES—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
New Roses.

E. W. McLellan Co., Inc., 18-20 Lick Place, San Francisco, Calf.
The Hit of the Season—Rose Mme. Cecil Brunner.

Extra strong bench American Beauty plants, in fine condition, only $35.00 per 1000, $40.00 per 1000 in 500 lots; smaller lots, $4.50 per 100. THE FLOREX GARDENS, North Wales, Pa

Roses—From 3 in pots, Mrs. Taft, Double White Killarney, Richmond and Killarney Queen. Open to an offer. FLUSHING ROSE GARDENS, 69 Colden Ave., Flushing, N. Y.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Gigantic Pansy Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken N. J
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

SEEDS—Continued

J. Oliver Johnson, 1874-76 Milwaukee Ave., Lawn Grass Seed. Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland. Send for Catalogue.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

R. & J. Farquhar & Co., 6 & 7 South Market St., Boston, Mass. Pot-Grown.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Peppers—Strong, transplanted plants, $3.00 per 1000; out of 2¼-in. pots, $1.75 per 100. Cabbage—Ballhead, Surehead, Succession, Flat Dutch, Drumhead, $1.00 per 1000. Cauliflower, $2.50 per 1000. Celery—Golden Self-blanching, White Plume and Pascal, $2.00 per 1000. Cash. LESTER'S PLANT FARM, W. C. Lester, Mgr., Plainville, Conn.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind. Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works, Richmond, Ind. 20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, 3½ and 4 in. stock, extra heavy, $14.00 per 100; medium, $10.00 $12.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Flower Growers' Association. 176 N. Michigan Ave.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

E. C. Horan, 55 W. 28th St., New York.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CHRYSANTHEMUMS.
Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
For page see List of Advertisers.

GIANT PANSY SEED.
O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

HORSE STABLE MANURE.
New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
For page see List of Advertisers.

KIL-WORM AND KIL-WEED.
Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

MICHELL'S GIANT PANSY SEED.
Henry F. Michell Co., 518 Market St., Philadelphia, Pa.
For page see List of Advertisers.

NEW SEASON GOODS.
H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

ORCHIDS—FRESH IMPORTATIONS.
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

POT-GROWN STRAWBERRY PLANTS.
Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

TOBACCO DUST.
Wm. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

VICK'S GIANT SUPERB PANSY SEED.
James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

WHEAT SHEAVES.
M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORIST BUSINESS FOR SALE.
A. E. Moore, 69 Bay St., Toronto, Canada.
For page see List of Advertisers.

HELP WANTED

WANTED.

A working foreman on a commercial place; address, with reference, SHEPARD'S GARDEN CARNATION CO., 292 Fairmount St., Lowell, Mass., stating wages and what experience in the growing of carnations, lilies and various kinds of potted plants.

FOR SALE

FOR SALE

Retiring from Florist business in Toronto, will sell at a bargain, Wholesale Florist Business and Retail Stores, together or separate.

A. E. MOORE

69 Bay Street Toronto, Canada

FOR SALE OR RENT.

A good wholesale florist establishment of 35,000 ft. of glass and 25 acres of good land, with good house, barn and other buildings. Near Pittsburgh, Pa. For particulars write
W. F. LAUCH, NEW GALILEE, PA.

FOR SALE—One Lord & Burnham, 8-section boiler. A1 condition. New set grates. Used one season. W. W. EDGAR CO., Waverly, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

MISCELLANEOUS

WANTED—To lease with privilege of buying, a small range of greenhouses, with a few acres land and house, near some good Massachusetts town. Address J. E., care HORTICULTURE.

For List of Advertisers See Page 35

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

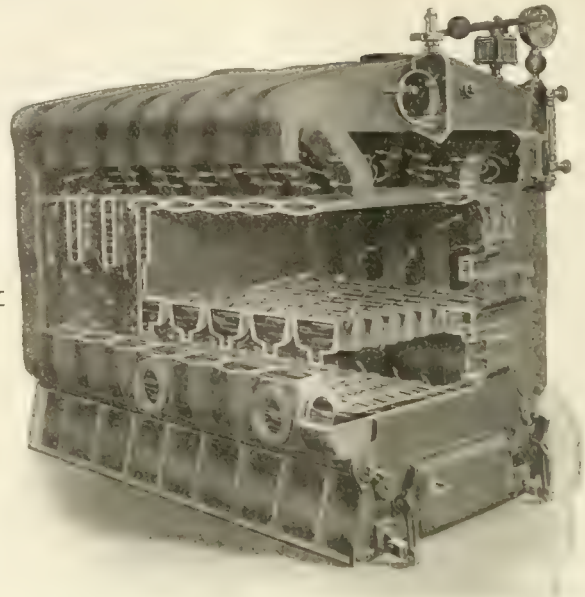
HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave and Dwight Street
JERSEY CITY, N. J

The King "Ideal" Burns Soft Coal



"King Ideal" Boiler
FOR
GREENHOUSES

A square Sectional Cast Iron Boiler designed especially for burning soft coal, so that it is

SMOKELESS

The King Ideal is a very practical heater which costs a trifle more than the old style rocking grate hard coal boiler but it

Saves 1-3 of the Season's Fuel Bill

Write for the Bulletin No. 41 and find out why the King Ideal Boiler like a King Greenhouse is the most profitable investment you can make.

KING CONSTRUCTION CO.
28 King's Road, NORTH TONAWANDA, N. Y.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

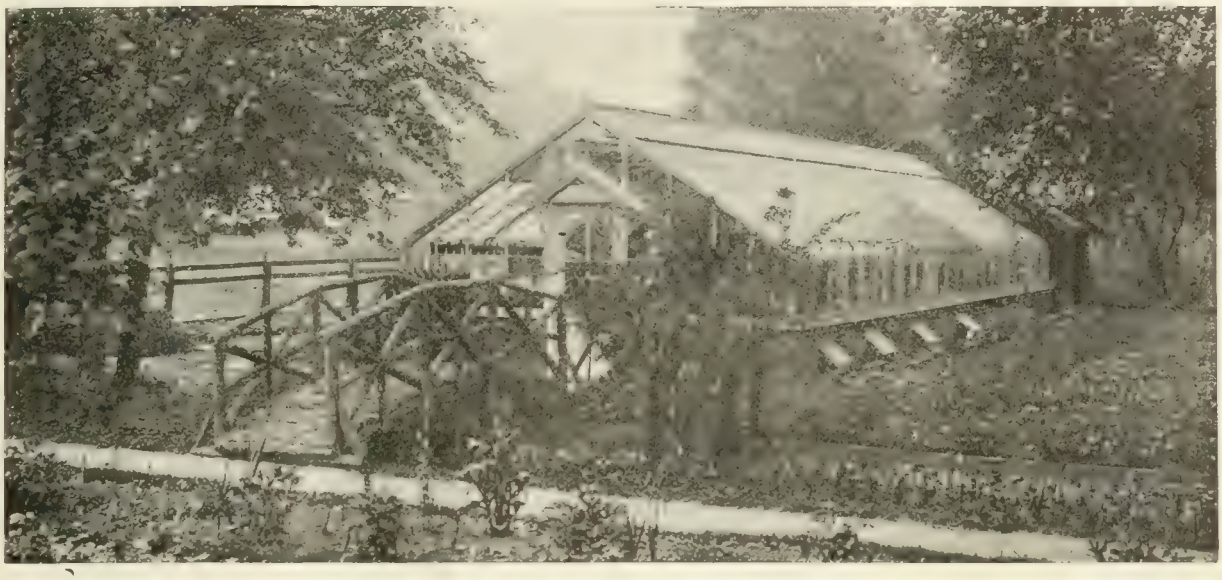
Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

FOR **"POT LUCK"** TRY US...
HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS
A. H. HEWS & CO., Inc.
Pearson Street
LONG ISLAND CITY, N. Y.
Main Office and Factories
CAMBRIDGE, MASS.



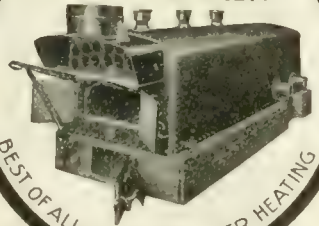
When It Comes to Greenhouses
Then Come To

NEW YORK OFFICE
1170 Broadway

Hitchings and Company

PHILADELPHIA OFFICE
Pennsylvania Bldg.
15th and Chestnut Sts.

THE KROESCHELL GREEN HOUSE BOILER



BEST OF ALL FOR HOT WATER HEATING

WHAT THE USERS SAY

The Kroeschell Does Our Work Easier Than Cast Iron Boilers and Saves 20 to 25% Fuel.

The No. 4 boiler is heating 10,000 sq. ft. of glass—it would take care of 13,000 sq. ft. easy. Have no trouble to keep temperatures of 50 and 60 degrees in coldest weather. The boiler has given perfect satisfaction. We had two cast iron boilers, one rated for 1200 ft. of pipe and one rated for 1500 ft. These boilers never did the work at their best and when the greenhouses were new. According to our experience with yours, we will save 20 to 25 per cent. of fuel.

HILD BROS., Lake Forest, Ill

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

A useful Gift for your friend or employee. A year's subscription for
HORTICULTURE

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

MASTICA
FOR Greenhouse Glass



USE IT NOW
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

Which?

It's about twenty-five years ago, isn't it, since the clumsy, unenduring, wooden bicycle wheel was abandoned for the light, strong, all-steel wheel with its wire-like spokes and fine, true-running ball bearings?

You remember how the wise ones shook their heads and said: "those cob web wheels can't stand the racket."

Well, they have stood it for twenty-five years, and now the automobiles are abandoning wooden wheels because the all steel are stronger and last longer!

When the first U-Bar house was built with its cob-web-like all-steel frame and graceful curved eave, the wise ones again shook their heads and said "it couldn't stand the racket."

But it has stood it for over a decade.

So undeniably practical has the construction proven; so far superior is it in growing results; so much lower in up-keep; that other constructors have made their houses as near like it as possible by adopting the curved eave. But the curved eave is only one of the U-Bar's superior points.

Other curved eaves may look like it, but looking like it is the only way they are like it.

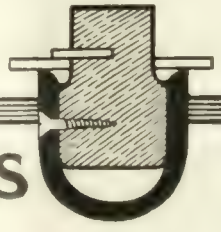
If it isn't made with the U-Bar, it isn't a U-Bar curved eave house.

The question for you to decide then is; whether you will be satisfied with a house built like the old heavy bicycle wheel; or have the cob-web-steel U-Bar construction.

Of course the U-Bar costs more, but it is worth many times more than it costs.



A galvanized all steel framework, with the exposed wood on the outside; the steel on the inside—such is the U-Bar construction.



U-BAR GREENHOUSES

PIERSON U-BAR CO

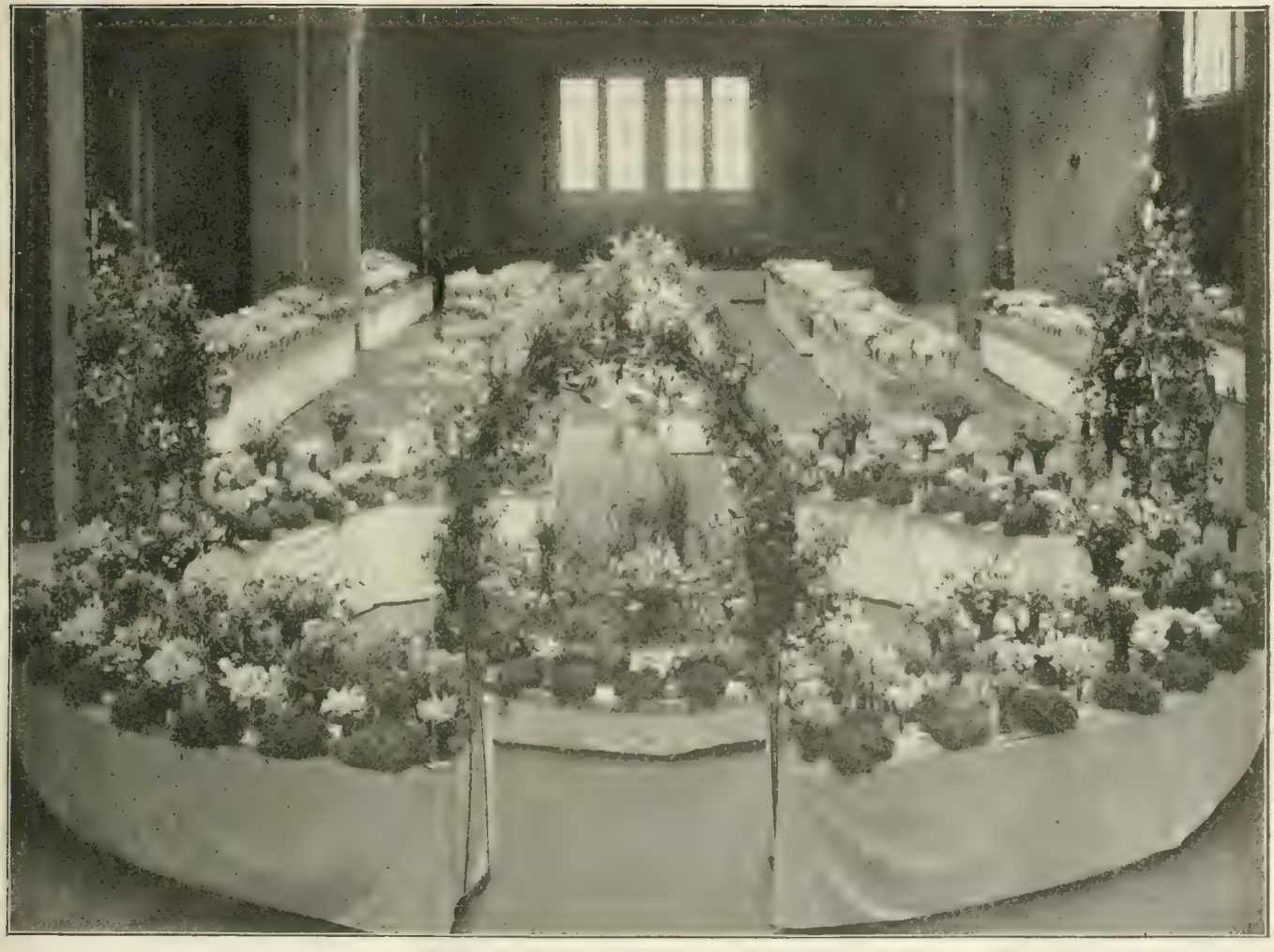
ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVIII. JULY 19, 1913 No. 3

LIBRARY
NEW YORK
BOTANICAL
GARDEN.



SWEET PEA EXHIBITION AT BOSTON.

Showing Centre of Main Hall. First Prize Arrangement by R. & J. Farquhar & Co., in Foreground.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

THE REGAL LILY

THE FINEST OF ALL LILIES



A FIELD OF LILIUM MYRIOPHYLLUM AT FARQUHAR'S NURSERIES. PHOTOGRAPHED JULY 8, 1913.

LILIUM MYRIOPHYLLUM

BULBS $1.50 each, $15.00 per dozen

ORDERS BOOKED NOW—DELIVERY IN OCTOBER

R. & J. FARQUHAR & CO.

BOSTON, MASS.

GERANIUMS

Our collection of Standard Varieties of Geraniums stands second to none in the country; it contains over one hundred varieties which represents the very best that there is in Geraniums. There is none better. Our stock is the largest and best we have ever had and the prospects are that we shall have an enormous supply for next season's shipment. We are ready to book orders, confident we will be able to give satisfaction in every way. **250,000 Good 2-in Plants Ready for Shipment Now**; $2.00 per 100, $18.50 per 1000.

We invite a critical examination of our stock. Our catalogue is recognized as the **Geranium Blue Book.** 400 Varieties are Accurately Described. Free to the Trade.

SMILAX. Good, strong 2-in. stock, $2.00 per 100, $17.50 per 1000; seed-bed plants, strong, $1.00 per 100, $8.50 per 1000.

VEGETABLE PLANTS

CELERY. Golden Self-Blanching, 40 cts per 100, $2.50 per 1000; White Plume, Golden Heart, Giant Pascal, 20 cts. per 100, $1.00 per 1000.

PARSLEY. 25 cts. per 100, $1.25 per 1000.

CABBAGE. All-head, Ball-head, Flat Dutch, Savoy, 20 cts. per 100, $1.00 per 1000.

CASH WITH ORDER

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

Chrysanthemums

Some nice plants of

Yellow Bonnaffon and Pacific Supreme

From two-inch pots, $15.00 per 1000.

Shepard's Garden Carnation Co.

292 Fairmount St., LOWELL, MASS.

Please mention HORTICULTURE when writing

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

LIST OF ADVERTISERS

Page
Advance Co.....95
Albany Cut Flower Exchange....88
Allen, J. K.....88
Anderson, S. A...83
Aphine Mfg. Co..79
Aschmann, G.....76
Atlanta Florist Co. 86
Ayres Co., S. Bryson 81
Badgley, Reidel & Meyer 88
Barnard, W. W. Co. 80
Barrows & Son...68
Bayersdorfer, H. & Co.....85
Bay State Nurseries 67
Bloomingdale's ..82
Bobbink & Atkins 78
Boddington, A. T.77
Bolgiano & Son, J. 81
Boston Florist Letter Co.....86
Breck, J. & Son..81
Breck - Robinson Nurseries 78
Breitmeyer's, J. Sons 82
Bryan, Alonzo J..76
Burpee, W. A. & Co. 81
California Florist.83
California Seed Growers' Asso..81
Carbone 83
Chicago Carnation Co. 86
Childs, John Lewis 80
Clarke's, D., Sons.82
Clark, Everett B. Seed Co.....81
Cooke, Geo. H....84
Cowee, W. J.....88
Craig, Robt. Co..76
Dards 82
Davidge, Wm. M.79
Dawson, H. S....67
Dorner & Sons Co. 76
Dreer, H. A.....95
Dunlop, John H..83
Dysart, R. J.....88
Eastern Nurseries 67
Edwards Folding Box Co.....86
Elliott, W. H.....78
Elliott's W., Sons.79
Eppstein, Julius..83
Ernest, W. H....94
Esler, J. G.....95
Eyres 82
Fairfield Landscape & Nursery Co.....78
Farquhar, R. & J. & Co.....66-81
Ford, W. P.....88
Forrest, Frank H.83
Fottler, Fiske, Rawson Co.....81
Framingham Nurseries 78
Froment, H. E...88
Frost, Chas.....76
Galvin, Thos. F..83
Gasser, J. M. Co..83
Goodsell, P. H...67
Grey, T. J. Co...81
Gude Bros. Co...82
Hail Association..95
Hall & Robinson.83
Hammond Paint and Slug Shot Works 79
Hart, Geo. B.....86
Heacock, Jos.....76
Heinecken, Otto..81
Henderson, A.....76
Hess & Swoboda.82
Hews, A. H. & Co. 95
Hilfinger Bros....94
Holland Nurseries 78
Holm & Olson....82
Jacobs, S. & Sons.95
Johnson, J. Oliver 80
Johnston Bros....83
Kasting, W. F. Co. 89
Keller, J. B. Sons.82
Kelway & Son...80
Kervan Co.....88
King Cons. Co....94
Kramer, F. H....83
Kroeschell Bros..95
Kuebler, W. H...88
Lager & Hurrell..76
Lange, A.....83
Lemon Oil Co....79
Leonard Seed Co..80
Leuthy, A. & Co..68
Loechner & Co...78
Lord & Burnham.96
MacMulkin, E....83
May & Co., L. L..83
McConnell, Alex..82
McCarthy, N. F. Co. 89
McCray Refrigerator Co.....84
McCullough's Sons Co., J. M.....86
McHutchison & Co. 68
McKenzie, John...76
McManus, Jas....88
Michell's Seed House 80
Michigan Cut Flower Ex.....86
Millang, Chas.....88
Miller, E. S.....81
Montreal Floral Exchange 88
Moore, A. E.....93
Moore, Hentz & Nash 88
Morris & Snow Seed Co.....81
Murray, Samuel..82
National Nurseryman 78
N. Y. Stable Manure Co.....79
Neissen, Leo Co..86
Oechslin, Frank..76
Ouwerkerk, P.....78
Park Floral Co...82
Palmer, W. J. & Son 82
Parshelsky Bros..95
Pelicano, Rossi & Co. 83
Penn the Florist.83
Pennock - Meehan Co. 87
Pierce Co., F. O..95
Pierson, A. N....76
Pierson, F. R. Co.68
Pino - Lyptol Chemical Co....79
Plant Food Co., 20th Century...79
Poehlmann Bros. Co. 86
Pollworth, C. C..82
Pulverized Manure Co.....79
Quaker City Machine Co.....95
Reed & Keller....88
Reinberg, Peter..86
Rice, M. Co.....83
Robinson Co., H. M. 88
Roehrs, J. Co....76
Roland, Thomas..76
Rolker, A. & Sons 68
Rosery, The.....82
Sander & Son....76
Scott, John.....76
Schling, Max.....83
Sharp, Partridge & Co.....95
Shepard's Garden Carnation Co...67
Sheridan, W. F...88
Siebrecht, Geo. C.88
Siggers & Siggers 95
Skidelsky, S. S. & Co.....80
Smith, P. J.....88
Smith & Co., E. D. 67
Smith, W. & T. Co. 78
Smyth, Wm. J...82
Sprague, J. H....79
Stearns, A. T. Lumber Co.....95
Syracuse Pottery Co. 94
Totty, Chas. H...78
Thorburn, J. M. & Co.....81
Traendly & Schenck 88
Valentine, J. A...82
Van Assche, F....95
Vick's Jas. Sons..81
Vincent, R., Jr., & Sons Co.....67
Wants, For Sale..93
Ward., R. M. & Co.68
Weeber & Don....81
Welch Bros. Co...86
Whittier & Co., W. B.....78
Wilson, Robt. G..82
Wood Bros.....78
Woodrow & Marketos 88
Young & Nugent.82
Zangen, O. V.....81
Zinn, J. A.....83
Zvolanek, Ant. C..81

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 90, 91, 92, 93

Anybody can sell lily bulbs where money is no object and quality is a secondary consideration. But if you want them from the best fields it is better to buy Horseshoe Brand bulbs for they have repeatedly demonstrated their worth during the last eight years. Its the brand that shows the highest average under various circumstances. In this connection we submit that our record is worthy of your consideration.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of	100	Size	7-8	at	$ 6.00 each
"	100	"	7-9	at	8.50 "
"	340	"	7-8	at	21.00 "
"	300	"	7-9	at	21.00 "
"	250	"	8-10	at	25.00 "
"	180	"	9-11	at	22.00 "

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

LILIUM HARRISII

For Immediate Delivery

We have received our first consignment of Harrisii, and offer a selected stock of the original true Harrisii for early forcing. The stock was grown from the original true type, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. The crop this season is much shorter than usual, but we are still in position to supply a nice lot of selected stock, and can now make delivery from first shipment.

6 to 7 inch bulbs, 350 to the case, $5.50 per 100; $45.00 per 1000
7 to 9 inch bulbs, 200 to the case, $9.00 per 100; $82.50 per 1000

Full case lots at thousand rates.

HYDRANGEA OTAKSA

BLUE AND PINK.
IN BUD AND BLOOM, FOR IMMEDIATE USE.

We have a fine stock of pot-grown plants in 6-in. and 7-in. pots, in fine shape, just beginning to show color, 50c. and 75c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, $2.00 and $3.00 each; extra large specimens in half-barrels, $5.00 and $7.50 each.

FINE FERNS FOR SUMMER DECORATION

We have a fine stock of the following varieties of Nephrolepis:

ELEGANTISSIMA: 6-in. pots, 50c. each; 8-in. pots, $1.00 each.
HARRISII form of Bostoniensis—the best of all the plain-leaved type: 8-in. pots, $1.00 each; very large specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

White Killarney, Pink Killarney, Richmond, Lady Hillingdon and Killarney Queen.

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON NEW YORK

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bougainvilleas

It is well to give these plants every attention from this out. Bougainvilleas will now be at the height of their active growth so give them every opportunity to extend themselves. Now is a good time to give them a shift if their pots are filled with roots. They are rank feeders so they need a rich compost. Mix up three parts of lumpy well-decayed sod, one part cow manure and a good sprinkling of bone meal. See that they have plenty of drainage in their pots and give them a bench where they can have the full sun all day. Go over the plants twice a day so they can be kept watered at the roots, as now they will need lots of it. They will stand any amount of syringing, say at least twice a day for the next five or six weeks.

Calanthes

These plants should now be making a strong and healthy growth. Do not fail to keep the air humid by several dampings down during the day, but never allow a stagnant atmosphere at any time. Watch the plants so they do not suffer for water but do not keep them in a wet state all the time as the compost will become sour. It is always better to permit these orchids to dry out occasionally so the compost will be kept sweet. When the short and dark days come give plenty ventilation without allowing direct drafts. When they have filled the pots with roots give them weekly waterings of weak cow manure once a week. This can be kept up until the flowers expand. Keep an eye out for thrips.

Care of Chrysanthemums

Chrysanthemums that were benched early will now be making lots of roots through the compost and will be greatly benefited by extra feeding. There is nothing better to meet this demand than a nice mulch of well rotted cow manure and soil in equal parts. Before doing this give the surface of the beds a good sprinkling of bone meal and on this place the mulch, about half an inch thick all over. It is from now on that we will have to lay the foundation for fine flowers with good foliage. They will need a copious supply of water at the roots. Syringing will also have to be practiced frequently. During the hot weather blackfly and greenfly will be quite troublesome so keep them in check by a systematic spraying with some insecticide or fumigation once a week, for if not combated right along they will soon overrun your plants.

Cocos Weddeliana

These palms that were raised from seed sown in the early spring should now be doing nicely in two-inch pots. To keep them in good health a very important fact to remember is to use great care in watering them at the roots as they are very slow growing so will require less water than most other palms and any unskillful or careless watering will surely cause ruin. Give ventilation strict attention at all times. In the morning start by giving a little at a time and then in the afternoon reduce the same way gradually. These palms should never be allowed to go below 70 degrees at night and with a rise up to 85 or 90 during the day with sun. Do not keep too thickly shaded as they like a full measure of light without exposure to the direct sun action.

Planting Carnations

We are now coming to the carnation growers' busy time, which is the planting up of his houses. The first thing to do is to shade the house, which will make it more congenial for both man and plants. Put on something that will come off easily as they should have full sun in about twelve days. When lifting the plants see that they always have some protection from the sun and drying winds. Always have enough of help so they can be lifted, removed and planted out in the houses as quickly as possible. When planting make your holes large enough so the roots will have a nice spread and do not plant any deeper than they were in the field, giving each and every plant a firm pressing around the roots. When you have a block of 50 to 75 feet planted see that they have a proper watering. Give them a nice spraying three or four times a day and keep the house rather close for about ten days.

Planning for Next Winter

There is nothing of greater importance than to prepare plans away ahead of time. Every retail grower should have a good batch of snapdragons, stocks, lilies, poinsettias, etc. Another standby for every retail florist to include is in the bulb line, as tulips, Roman hyacinths, Dutch hyacinths, and narcissi as they can be grown in most any house and will always find a buyer. Decide now what to grow and order what stock you may need and you will be sure to get the best while it is on the market in quantity.

Mr. Farrell's next notes will be on the following: Aspidistras; Camellias; Dahlias; Sowing Schizanthus; Winter-Flowering Stocks; Late Asters.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Pot Up Strawberries

When the layers have stood a day or two after being cut away from the parent plant and have fully recovered any little set-back they may have experienced through having to rely on their own resources to obtain nourishment, proceed to pot them up. Some growers advocate putting them into 4's and after these are filled out with roots pot them on into 6's, their fruiting size. Nothing is gained in this method over placing them directly into their permanent pots. They will take a little extra care for a time until they have rooted through, after which with increasing roots demanding more water they will grow along easily. It is essential that all pots are properly drained. See that some rough material or old mushroom bed is placed over the crocks or ashes to prevent the soil from working down and clogging them up. A teaspoonful of soot sprinkled directly on the drainage will prevent worms from entering for quite a time. A strawberry likes to be made nicely firm consequently no cracked pots are permissible for the job. The soil should be made up of half decayed, medium to heavy loam, with a little soot and bonemeal mixed into it. Should it be of a heavy texture add enough old mushroom bed to keep it porous. At the time of potting, the soil should be on the dry side, which allows of the free use of the rammer. Transfer the plants to the position they are to occupy during the rest of the summer, which should have an ash bottom, which helps to keep away worms, makes a good drainage for the pots and is clean to get about the plants on. For a start let the pots be placed pot-thick which will help to keep the moisture about them. Syringe once daily and spray them over several times, which will help to promote growth.

The Vegetable House

Now is the time to look to any repairs that are needed in the vegetable house, for there is only a matter of a few weeks until activities will commence again here. It may be a coat of paint is needed—which will find work for the painters during some rainy days. Benches, either sides or bottoms, may need renewing now when a bench has been emptied and the weather is good to fill it in again without delay. Then there is the heating system; is all right here? Is there still remaining under some of the benches partly used mushroom beds? If so have these cleared out as there will be little call for this material after this. The mushroom cellar should also be looked to, all disused beds removed, and the place scrubbed down. A white-wash throughout will be beneficial.

Pot-Trees and Their Care

By this time all the trees grown in pots, excepting perhaps a few apples and pears, will be plunged outside and apparently there is nothing to do with them until potting times comes along. Seldom if ever do we find a subject that can be neglected for any length of time either growing or resting. These trees may look as though there is "nothing to do till tomorrow," but I say look out for today. Remember these trees have all been forced hard and in addition to the usual watering will need a "livener" once in a while. Nothing very strong, but a little cow-manure water about once a week will help them to plump up the buds for next season's work. Do not rely on a shower to water the roots of these trees. A moist top is sometimes deceiving, and a big detriment to the trees. Keep a sharp look-out for borers as they are particularly fond of these trees.

Our Friend

Allow me to introduce our readers to another friend of the gardening fraternity. Mr. Reader, shake hands with Mr. Turtle. "Pleased to meet you, Mr. Turtle." "How'd you do, Mr. Reader? I believe you have a quantity of bugs, etc., to dispose of?" "Yes; well now, etc." Our friend turtle has proved himself a valuable assistant since we first captured him some months ago. It is the ordinary land turtle I refer to. Not being a naturalist I am at a loss to give his correct name, but most readers will be familiar with them threading their way through the long grass or undergrowth. I am told they feed on tender growths in addition to any bugs that they come across, which is borne out by the fact that they will relish a nice juicy peach or nectarine and take little time to get next to it should one have the misfortune to fall to the ground. They also will feed on practically all the live stock that is to be found in the borders of the fruit houses. It is amusing to see them making a double-quick march along the borders picking anything off the wall that may come to their notice. They have helped us in a practical way and will do the same for others if transferred to the houses and the outside doors are kept closed; otherwise they would retreat to their native haunts.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Burning of the Foliage on Roses

(In reply to inquiry)

In reply to inquiry received on the 12th inst. we would say that pure, clean water will scorch and scald the foliage of the roses if it is applied when the plants are a little dry at the root. Tobacco smoke will do the same thing. This is especially true of houses that have a large amount of concrete flooring, for then the air is almost perfectly dry, unless provision has been made to supply a steady amount of moisture to help keep the atmosphere in prime condition. As for spraying the plants every now and then, we would think it best to leave that out altogether. An occasional syringing to keep out that ever-present little brute—red spider—will be all the spraying that the plants will require to keep them in good health. Before each syringing make sure that the plants are all wet enough. Better go over them very lightly with a hose very early in the morning to make sure. Then syringe after nine o'clock and you will be on the safe side. Also the damping down; we think it is very much out of place in the rose houses. It may be all to the good in other branches of the business but keep away from all damping down in the rose houses. Where the floors of the houses are all of concrete, and perhaps the benches, too, put some ashes or something similar over the walks, say two inches deep. This will keep the moisture in the houses about right, to say nothing of reducing the temperature in general. The trouble with this damping down is that usually the thing is carried altogether too far, and the growth is likely to become too soft. Then in the fall instead of having a lot of healthy plants that will resist mildew and about half a dozen other diseases which lie in waiting, you will have a good dose of mildew before you know it, and it will take the plants until spring to recover from this one attack. With Beauties, blackspot is liable to set in, which is almost as bad as the mildew—much worse in fact as mildew can be killed, leaving only the marked foliage to tell the tale. To go on with the cause of burned foliage; sometimes the glass will not be as good as it might, and there will be quite some burners, or "cats' eyes," as these spots are sometimes called. Of course the leaves will burn only in places and not throughout the whole house. Go over these places with a brush and some paint, and cover the spots well.

Tying the Young Beauty Plants

It does not pay to be in too much of a hurry to tie up the young plants, as it does them good to lie around a little, before being strung to the wires. You will find the plants will break much easier from the bottom when they lie bent over, and as long as they are not damaged by syringing they can so remain. When finally tying the plants it is advisable to tie them on a little slant, instead of straight up. This will give the new bottom shoots a better chance to grow, and as soon as they are fairly up, and the mother shoot has a bud, the latter can be cut away at the very bottom, leaving the plant composed entirely of the new shoots, as the old mother shoot seldom amounts to anything, usually throwing a lot of weak wood that will just run and run, and never bloom, being only in the way of the other shoots which produce the flowers.

Manure for the Early Mulches

It is high time for the manure pile to be in shape if nothing has been done to it as yet. The manure intended for the early mulches should have been turned over several times by this time. Keep it wet, too, to keep the pile cool, or it will burn very likely and then be practically worthless as far as plant food is concerned. A little new, good sod added to the pile at each turning will do wonders in holding moisture, and absorbing all the liquids so valuable to plants, and which would otherwise be lost.

BRITISH HORTICULTURE.

The R. H. S. Summer Show.

A wide variation of summer blooms in all their grandeur were to be seen at the annual summer show of the Royal Horticultural Society, held at Holland House, Kensington, on July 1st and two following days. The society had a difficult task to excel the recent magnificent exhibition at Chelsea. The show, of course, was not on such an extensive scale but the high standard of excellence was in keeping with the society's meritorious record. The exhibits were arranged in seven large marquees. Contributions were received from some 120 exhibitors of flowers. The Coronation challenge cup, given for the best exhibit, was awarded to Sander & Sons, for their orchids. The firm also received a first class certificate for Miltonia Sanderae, and an award of merit for Cattleya Mossiae Dreadnought. Roses were numerous and interesting. In the group of Chas. Turner there was a new scarlet Rambler, Coronation, of promise; also a sport from Lyon rose, a semi-double with buff-tinted blooms. Shower of Gold is a new Rambler with small yellow flowers,—this was exhibited by Paul & Son. Frank Cant & Co. showed Miss Ada Francis, a new Rambler with blooms similar to those of Goldfinch, and Braiswick Chrome, a new Wichuraiana with yellow-tinted blooms. W. Easlea staged Cherry Page, a new decorative hybrid tea, with cherry pink blooms shaded with yellow. Sweet peas made a brilliant display. Sutton & Sons had a fine array, as did also Dobbie & Co. Perpetual flowering carnations lent their gorgeous coloring to the scene.

The Rose Show.

The annual show of the National Rose Society on July 4th was bigger and better than ever. It was undoubtedly the largest display in the society's 37 years' experience. The nurserymen's champion trophy for 72 blooms fell to B. R. Cant & Sons, whose collection included a new crimson seedling hybrid, Augustus Hartmann. Alex. Dickson & Son were second and Frank Cant & Co., third. In the class for nine blooms of any new rose, Jas. Cocker & Sons were first with Mrs. Andrew Carnegie, a new H. T. described as "a sweetly scented Frau Karl Druschki." This had previously received a gold medal from the National Rose Society. In a class for 40 distinct varieties, Alex Dickson & Son were first, their exhibit including a new crimson variety, Conway Jones; B. R. Cant & Sons were second, and F. Cant & Sons third. There was a splendid display of seedlings—always a special feature of this show. Alex. Dickson & Sons received a gold medal for Queen Mary, old gold. Mrs. James Lynas is a new H. T., or blush pink, whilst Brilliant is a scarlet crimson, with rather loose blooms. The two last-named were exhibited by Hugh Dickson, and each received a gold medal.

W. H. Ansell.

HORTICULTURE

VOL. XVIII JULY 19, 1913 NO. 3

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Sweet Pea Exhibition at Boston.

NOTES ON CULTURE OF FLORISTS' STOCK—Bougainvilleas — Calanthes — Care of Chrysanthemums—Cocos Weddeliana — Planting Carnations—Planning for Next Winter—*John J. M. Farrell*..... 69

FRUIT AND VEGETABLES UNDER GLASS—Pot Up Strawberries—The Vegetable House—Pot Trees and Their Care—Our Friends—*George H. Penson*..... 70

ROSE GROWING UNDER GLASS—Burning of the Foliage on Roses—Tying the Young Beauty Plants—Manure for the Early Mulches—*Arthur C. Ruzicka*.. 71

BRITISH HORTICULTURE—*W. H. Adsett*..... 71

AMERICAN SWEET PEA SOCIETY—The Exhibition—Massachusetts Horticultural Society Prizes—The Meeting — The Banquet — Visitors — Report of the Sweet Pea Trials for 1913, *Prof. A. C. Beal*—A Few Notes on Sweet Peas, *George W. Kerr*.....73-74-75

SEED TRADE—California Seed Crops..... 80

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures..... 82

Flowers by Telegraph—New Flower Stores..... 83

House Cleaning..... 84

CLUBS AND SOCIETIES—St. Louis Florist Club—Chicago Florist Club—Gardeners' and Florists' Club of Boston—Society of American Florists..... 85

Club and Society Notes..... 85

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago..... 87

Cincinnati, New York, Philadelphia, St. Louis, Washington..... 89

OBITUARY—Joseph Clarke—Mrs. Wm. R. Smith—E. B. Sutton—J. C. Lewis—Oliver H. Weldon..... 94

MISCELLANEOUS:

Hydrangea Madame Mouillere—Illustrated..... 75

News from the Convention City..... 78

News Notes.....78-89

Personal..... 80

In Bankruptcy—Incorporated..... 83

Chicago Notes—Washington Notes..... 84

Philadelphia Notes—Hoodooed?..... 89

Greenhouses Building or Contemplated..... 94

Overloaded lists

Mr. Kerr, in his very interesting address to the Sweet Pea Society asked "Has the sweet pea reached its zenith?" We believe that the majority of those who have watched the rapid development of this flower in recent years will coincide with Mr. Kerr that the possibilities of the sweet pea are as yet but lightly touched upon. Permanent advancement is considerably hampered, however, by the same conditions that have discouraged and tried the patience of all those who have ever become enthusiastic in the exploitation of any special race of flowers—the unreasonable multiplication of named varieties. Every catalogue firm apparently feels called upon to give to the world a "set" each year and the temptation to inordinate laudation of the superiority of a new brood is too strong for human resistance. On the tables at Boston were plenty of varieties that at one time or another had been heralded as superior to their predecessors of similar color but which if mixed together in one bunch could never again be segregated and positively named by the keenest expert.

Society efficiency

The cumbersome and needless multiplication of named varieties is a nuisance which is almost certain to break out in the process of development of any flower in which the growers and the public become specially interested. In latter years perhaps the chrysanthemum and the carnation furnish the most conspicuous examples of excess in this direction. That it has been effectually stopped is something for which we have to thank the two societies devoted to the interests of these flowers. To attempt to carry a runt through the barriers and scrutiny now established by these societies is recognized as a well-nigh hopeless undertaking and the trade and public generally little realize their obligations to these organizations for what they have thus accomplished. The Sweet Pea Society is confronted with the same problem and the same duty as the chrysanthemum, carnation and peony societies. In Prof. Beal's valuable report of the sweet pea tests at Cornell, the mention of three or four hundred named sorts being tried out suggests the old days in the Massachusetts Horticultural Society when the passport to fame as a pomologist was the ability to exhibit four hundred or more varieties of pears under name! Prof. Beal's report seems to indicate that the Sweet Pea Society is getting down to business on very practical and serviceable lines.

The sweet pea seventy-five years ago

In that elaborate publication, *Plantae Utiliores*, by M. A. Burnett, published in London in the year 1842, we find in the chapter on Sweet Peas the following paragraphs which will doubtless interest many of our readers just at present:

The sweet pea has several varieties, greatly differing in color; the common sort, which is blue and dark purple, sometimes with a tinge of red, is a native of Sicily. The more delicate kind, white and blue, or white and deep rose color, sometimes with a mixture of pale blue, is a native of Ceylon, and is called the painted lady.

The Tangier pea is a native of Barbary, its colors purple and red; it is an annual plant and grows to the height of four or five feet, and blossoms in June or July, and dies in the autumn. Although the sweet pea is now so common in this country that we seldom see a garden without it, it is not more than a hundred years since it was numbered among our rare and curious plants, and in the time of Parkinson and Evelyn, it was not known in our gardens.

There is a variety of this pea entirely white, but the most beautiful is the red and white. But that I fear to confess so great a heresy, I would say this flower need not yield to the rose. Nothing can exceed the elegance of its form, nor can there be a more delicate contrast of color. They are justly termed Papilionaceous, for they do indeed look like butterflies turned to flowers. It is sometimes difficult to believe that the little white butterflies which reel about in the sunshine, are not white violets or peas which have broken their bonds. It is equally difficult to believe that these flowers want anything but will to fly; and we almost expect to see them start from their stalks as we look at them.

No better evidence is needed to show that the popularity of the sweet pea is neither new nor transient. A beautiful portrait of the three leading sorts in colors accompanies the text from which the foregoing was taken. The individual flowers appear hardly inferior to our well-known Grandiflora varieties, but in each instance there are but two flowers to the stalk.

AMERICAN SWEET PEA SOCIETY

The fifth annual exhibition and convention of the American Sweet Pea Society held in Boston on Saturday and Sunday, July 12 and 13, was a gratifying success in every respect. The joint exhibition of this society and the Massachusetts Horticultural Society completely filled the three halls of the Horticultural Building. The weather for a few days had been favorable for the flowers and thus quality was assured where in the heated term of the previous week it did look very dubious. There was a goodly number of visitors from New York, Philadelphia, New Jersey and New England generally, the Association of Gardeners having called their meeting for the same date and place as the Sweet Pea Society, many of the members of the former being also members of the latter.

The Exhibition.

The prize list was a tempting one and the classes were filled almost to the limit. Only seven of the Sweet Pea Society's premiums were uncompeted for, three of these being in the children's classes and three being in the classes for novelties of 1912 and 1913. In this latter respect the show was somewhat of a disappointment, the only novelties obtaining recognition being W. Atlee Burpee's Illuminator, which received a certificate of merit and William Sim's exhibit of new winter-flowering varieties which was accorded a silver medal. A gold medal was awarded to W. Atlee Burpee Company for the finest display of sweet peas. This exhibit was very extensive and showy.

Taking up the Sweet Pea Society's premiums in order as they appeared on the schedule awards were made as follows:

Section A, for Private Gardeners

R. & J. Farquhar & Co. prize for six vases of six Spencers: 1st, Mrs. T. O. Richardson, gard. Jas. Robertson, Newport, R. I.; 2nd, G. W. Vanderbilt, gard. E. Kirk, Bar Harbor, Me.

Thos. J. Grey Co. prize, ten vases of ten Spencers: 1st, Mrs. T. J. Emery, gard. A. L. Dorward.

Jerome B. Rice Co. prizes for vase of white Spencers: 1st, Miss Fannie Foster, gard. C. M. Bugholt, Newport; 2nd, Mrs. T. O. Richardson.

A. T. Boddington prizes for collection of 25 varieties, not less than 25 stems to a vase: 1st, Mrs. W. B. Leeds, gard. W. Gray, Newport; 2nd, Girard Foster, gard. Ed. Jenkins. Both of these exhibits were superb and as representing the premier collection of the show, winning also the Boddington challenge cup, we here give the list of varieties staged by Mr. Gray. They were as follows: Martha Washington, Asta Ohn, Carene, Mrs. Townsend, Helen Lewis, Constance Oliver, Barbara, Mrs. C. W. Breadmore, White Spencer, Enchantress, Florence Morse, Hercules, Primrose, Mrs. Henry Bell, Tennant, King Edward, Colleen, Elsie Herbert, John Ingman, Othello Spencer, Mrs. Hardcastle Sykes, Countess Spencer, Etta Dyke, Lovely, Apple Blossom.

Watkins & Simpson prize for six vases Spencer: G. W. Vanderbilt.

H. F. Michell gold and silver medals for Vermillion Brilliant: 1st, S. Carlquist, Lenox; 2nd, Mrs. T. J. Emery.

H. F. Michell medals for best vase of Spencers, not less than 100 blooms: 1st, Mrs. T. O. Richardson; 2nd, Mrs. T. J. Emery.

Peter Henderson & Co. prize for 12 vases of 12 varieties: 1st, Mrs. W. B. Leeds; 2nd, D. F. Roy, Marion.

Society's medals for display covering 24 sq. ft.: 1st, Mrs. W. B. Leeds; 2nd, Highlawn, gard. Geo. Foulsham, Lenox.

Section B, for Private Gardeners and Amateurs.

W. Atlee Burpee cup for 12 vases, 12 varieties: Miss F. Foster.

W. Atlee Burpee's prizes for vase of 1913 Spencer: 1st, Miss F. Foster, variety Decorator; 2nd, S. Carlquist, variety Charm; 3rd, H. Heeremans, variety Orchid.

W. Atlee Burpee prizes for vase of Grandiflora type: 1st, Highlawn, variety Queen Alexandra; 2nd, H. Heeremans, variety King Edward VII.

Sutton & Son's cup for best table of sweet peas: A. W. Preston, gard. J. L. Smith, Swampscott, Mass.

J. Horace McFarland Co. prize for six Spencer and six Grandiflora: H. Heeremans.

Stumpp & Walter Co. prizes for six vases Spencer: 1st, Mrs. T. J. Emery; 2nd, S. Carlquist; 3rd, H. Heeremans.

Section C, for Amateurs.

Prizes offered by Peter Henderson & Co., A. T. Boddington, John Lewis Childs and by the Society were all well-competed for and awarded.

Section D for retail florists. In these classes, competed for mainly by three or four Boston florists the first awards were changed in several instances and much confusion and protesting resulted. The result as here recorded are given subject to revision. Our opinion is that florists from out-of-town who are familiar with the requirements of this kind of work should be called in to do the judging of exhibits in this class.

Silver and bronze medals for mantel decoration: 1st, Wax Bros, white and purple peas, smilax, ferns and palms; 2nd, Boston Cut Flower Co., peas, various colors, and ferns.

Bridal bouquet: 1st, Boston Cut Flower Co.; 2nd, Wax Bros.

Hamper: 1st, Boston Cut Flower Co., purple peas with chiffon, in bronze hamper; 2nd, H. Comley, salmon peas in green hamper.

Corsage: Boston Cut Flower Co., 1st and 2nd.

Section E, for School Children.

Prizes offered by F. R. Pierson, F. E. Palmer, A. T. Boddington, H. F. Michell Co., Gardeners' and Florists' Club of Boston and the Society were fairly well competed for.

Section F, Open and Miscellaneous Classes.

C. C. Morse & Co. prize and Society's medals for display, open to seed trade only: 1st, R. & J. Farquhar & Co., with the most elaborate and beautiful layout in the exhibition, a pool and fountain in centre, with circular tables and four arches of sweet peas; 2nd, W. Atlee Burpee & Co.; 3rd, A. T. Boddington.

Mt. Desert Nurseries' prize, for basket of sweet peas: Miss M. C. Collins.

H. A. Dreer prizes for vase of Mrs. Routzahn: 1st, Mrs. W. B. Leeds; 2nd, G. W. Vanderbilt.

H. A. Dreer prizes for George Herbert: 1st, H. Heeremans; 2nd, Col. F. Mason, gard. E. L. Lewis, Taunton.

Penn cup for display, 50 sq. ft.: Mt. Desert Nurseries.

Boston Flower Exchange prizes for six vases arranged for effect: Peter Fisher, Ellis. A very fine exhibit.

John L. Downey, gard. Thos. Ryan, who entered in several classes, showed the most remarkable stems and flowers ever seen on sweet peas but his varieties were faulty as to color and on this he lost out.

Massachusetts Horticultural Society Prizes.

These were in groups of classes open, for Spencers and Grandifloras, for amateurs only, and for children, respectively, 46 classes in all. They were practically all competed for except in the Grandiflora group, where only one entry appeared, showing how completely this class of sweet peas has been superseded. Among the principal winners were: Mrs. Lester Leland, Mt. Desert Nurseries, Mrs. T. J. Emery, Col. Chas. Pfaff, G. W. Vanderbilt, Mrs. P. C. Forbes, Mrs. T. O. Richardson, H. E. Converse, Miss F. Foster, S. Carlquist, etc.

The judging in the class for table decoration resulted in confusion as in the case of the other retail classes above referred to. According to latest information, first was accorded to Wax Bros.; second to Henry R. Comley, pink peas and adiantum being used in both instances.

There were many creditable exhibits of other material, including extensive fruit and vegetable groups. W. A. Manda received a first-class certificate of merit for Cattleya Harrisonae var. Mandaiana, a lovely flower, and honorable mention for group of orchids. Other interesting exhibits were orchids from Julius Roehrs Co. (honorable mention); F. J. Dolansky and J. T. Butterworth; gladioli from John Lewis Childs and B. Hammond Tracy; tuberous begonias from Mrs. Lester Leland; magnificent collections of herbaceous flowers from Eastern Nurseries, and William Whitman. R. & J. Farquhar & Co. showed a grand vase of Lilium myriophyllum.

THE MEETING.

The annual meeting of the American Sweet Pea Society was held in the committee room of Horticultural Hall on Saturday afternoon. After the usual routine business, Prof. A. C. Beal's report on the trial grounds at Cornell University was presented. An invitation was extended by M. C. Ebel for the next exhibition to be held in New York City and it was voted to accept and make the date for the last Saturday and Sunday in June, 1914. Secretary Bunyard reported that $350 had been appropriated for sweet pea premiums at the proposed International Flower Show in New York in March, 1914. The paper by G. W. Kerr, which we present in this issue, was attentively listened to.

Election of officers resulted as follows: President, William Sim, Cliftondale, Mass.; vice-president, Arthur Kirby, New York City; secretary, H. A. Bunyard, New York; recording secretary, J. H. Pepper, New York; treasurer, A. T. Boddington, New York, William Duckham, Madison, N. J., succeeds W. Atlee Burpee on the executive committee.

THE BANQUET.

On Saturday evening an elegant little banquet was tendered to the visiting members of the American Sweet Pea Society and the Gardeners' Association by the Gardeners' and Florists' Club of Boston, at the Copley Square Hotel. President W. J. Kennedy pre-

sided, about 60 guests being present, and it was a very enjoyable occasion. William Sim was the first speaker when the time arrived for the talkfest. Then came the new vice-president of the Sweet Pea Society, Arthur Kirby. George B. Dorr, of Bar Harbor, Me., followed with enthusiastic praise for the exhibition, and next A. E. Thatcher with a rousing speech. W. J. Stewart next, and then Thomas Roland, who spoke of the sweet pea as "the flower of the people and for the people" and paid a clever compliment to the great work of A. Zvolanek. Secretary Rich of the Massachusetts Horticultural Society congratulated everybody and assured them that Horticultural Hall would always open its doors to this beautiful and coming flower. Secretary M. C. Ebel of the Association of Gardeners spoke nicely for the gardeners. Peter Miller voiced the welcome of the Gardeners' and Florists' Club. Secretary Bunyard orated with characteristic wit and humor, and Wm. Downs and others to the number of nearly a score added their mite to the general felicitation, and heverbody went 'ome 'appy.

VISITORS.

We make no attempt to give a complete list of the visitors. Among them, however, were the following, most of whom honored the office of HORTICULTURE with a friendly call. Leonard Barron, Garden City, N. Y.; F. R. Pierson, Tarrytown, N. Y.; I. S. Hendrickson, Floral Park, N. Y.; C. H. Totty, W. H. Duckham and M. C. Ebel, Madison, N. J.; Jas. Robertson, Newport, R. I.; Jas. Stuart, Mamaroneck, N. Y.; H. A. Bunyard, George Struck, A. T. Delamare, J. H. Pepper, A. F. Faulkner and A. Kirby, all of New York City; A. E. Thatcher, Bar Harbor, Me.; Jas. MacMachen, Tuxedo Park, N. Y.; G. W. Kerr, Doylstown, Pa.; Prof A. C. Beal, Ithaca, N. Y.; W. A. Manda, South Orange, N. J.; J. J. Karins, Philadelphia, Pa

Harry A. Bunyard, secretary of the American Sweet Pea Society, provoked a hearty laugh at the annual meeting of that organization in Horticultural Hall. He had been proposed for re-election, and the office was generously seeking the man. But he was too modest to seem to want the place and too devoted to the society to surrender it to somebody else. "I've been thinking it's time for me to have a successor," he said, "but I've not been able to find a man big enough for the job, and—" the members exploded. One of them passed a cigar to Mr. Bunyard and he was promptly made secretary for another year. *Boston Transcript*

REPORT OF THE SWEET PEA TRIALS FOR 1913.

By Prof A. C. Beal of Ithaca, N. Y.

At this time it may be desirable to note the progress made in the sweet pea trials. This work was undertaken in the autumn of 1909, when plantings were made for the purpose of determining whether it is feasible to plant sweet peas in the fall. The results of this work were reported in Bulletin No. 301. The testing of varieties has covered four seasons. During this period a large number of varieties have been grown each year. These have not all been distinct, for a number of varieties have been grown every year for the purposes of comparison. The number of varieties grown each year is as follows: 1910, 469; 1911, 435; 1912, 370; 1913, 200.

When we began our studies of sweet peas, it was decided to make a thorough study of the evolution of the sweet pea, and for this purpose a large number of the older varieties were grown. These have now been dropped from the trials, which explains in large measure the smaller number of varieties grown during the last season. Each year careful and complete notes have been taken of all the varieties, which give us, in the case of those varieties grown for comparative purposes, a record of the behavior of varieties in different seasons. In the case of the novelties, however, most of them have only been grown one season.

Three publications have been issued, and the writer is rapidly putting into final form all the descriptive notes on varieties. This material will be ready for publication at the close of the present season. The publications which we have already issued have had a gratifying reception, not only in this country, but in England.

This year the seeds which were received for trial were sown singly in 3 in. pots during the last week in March. Each pot was carefully labeled so that no mixing of varieties in handling could possibly happen. The pots were placed in the greenhouse until germination occurred, and then were transferred to coldframes, where they remained until they were planted in the field. The preparation of the land was similar to that which we have practiced heretofore. There was no rain for three weeks after transplanting, and for a time we thought the chances of success very unfavorable. However, the plants grew well after the rains and began to bloom about June 20. This year we have abandoned the use of string as a support, and have employed wire netting. This serves the purpose very well, except in the case of some varieties which required tying to the netting. In addition to the 150 varieties sown in pots, about 100 varieties were planted in the open ground. Owing to the late, cold season these were not planted until the 18th of April, and at the present time only the Blanche Ferry and its near relatives are in bloom in this part of the trial grounds. On the other hand, the plants from seed sown in pots are now blooming freely and are making a splendid show. This affords an excellent illustration of the relative earliness of the same varieties grown by two systems.

Among the varieties of recent introduction now growing on the trial grounds are:

Barbara, Bertie Usher, Betty, Blue Jacket, Captivation Spencer, Chastity, Coronation, Cyril Unwin, Dobbie's Cream, Edith Taylor, Irish Belle, John Ridd, Lady Evelyn Eyre, Lady Knox, Leslie Imber, Margaret Madison, Loyalty, Mauve Queen, May Campbell, Melba, Millie Maslin Spencer, Mrs. Cuthbertson, Mrs. Heslington, Mrs. T. W. Warren, Orion, Pearl Gray Spencer, Primrose Beauty, Princess May, Red Star, Rosabelle, Scarlet Empress, Scarelt Emperor, Vermilion Brilliant, Winifred Unwin, Zarina Spencer, Andrew Aitken, April, Brunette, Bolton's Scarlet, Charm, Clematis, Dobbie's Scarlet and Dobbie's True Lavender, Earl of Lovelace, Ella Kelway, Felicity, Gustav Hamel, Grace Darling, Helen Pierce Spencer, Inspector, Lillian, Laura Wyatt, Lila, Lord Nelson Spencer, Lady Miller, May Perrett Spencer, Mrs. E. Cowdy, Mrs. Reginald Hill and Southcote Blue.

At the present time, so far as we have studied the varieties, it appears that those of merit are: May Campbell, marbled carmine on cream ground; Charm (Fordhook Fairy), white, suffused with delicate blush lilac; Orchid, rich, deep lavender suffused with pink; Dobbie's Scarlet, brilliant scarlet; Lady Evelyn Eyre, a very large blush variety; Lila, a distinct variety, standards faint lilac deeper at midrib, wings very light primrose; Orion, crimson; Mrs. Cuthbertson, rose pink standard and white flushed pale rose wings; Walter P. Wright, bluish lavender.

At the present date we would report that Inspector is better than Melba, and that both are better than Earl Spencer. The former shows a good percentage of doubles.

Dobbie's Scarlet appears to be the best of the bright scarlets, although Red Star is good.

Margaret Madison is doubtless better than Flora Norton Spencer. Leslie Imber and Southcote Blue are no better than the latter.

Helen Pierce Spencer, May Farquhar, Lord Nelson Spencer, and Millie Maslin Spencer are good, but we will report on them later.

Loyalty, Bertie Usher, and Blue Jacket are blue striped varieties.

Cyril Unwin resembles Arthur Green.

There are several cream pink, white, orange, maroon, and mauve varieties, but nothing which at this date is superior to the standard varieties.

These brief notes are subject to possible revision after further study, and the members of the Society are referred to our forthcoming report for complete descriptions and comparisons of varieties.

The recently organized Department of Floriculture proposes to continue to test new varieties of sweet peas each season, and hopes that the work which has been carried on may justify a continuance of the excellent support which the American Sweet Pea Society has given the work hitherto carried on at Cornell.

A FEW NOTES ON SWEET PEAS.

Paper by George W. Kerr, Doylestown, Pa.

When the evolution of the sweet pea is mentioned our thoughts must immediately go back to the late Henry Eckford, for, had he not given us that fine old pink variety Prima Donna, it may be that the Spencer type would not yet have been evolved, for Countess Spencer came to us as a sport, or, to follow the new term used by the Dutch botanist Hugo de Vries—mutation, from Prima Donna, and as we all know this was the forerunner of the beautiful new race of Spencers, many of which are now the results of careful hybridizing, while others are

simply sports or mutations from existing sorts.

Mendel's Influence.

I know I am safe in asserting that had not the Mendelian laws of hybridizing been made public, the evolution of the sweet pea would not have been so far advanced, for Mendel has taught us that it is useless to expect results in the first generation, that no matter how unpromising the flowers may appear, the seed should be carefully saved and sown again and then in the second generation we may be rewarded by the appearance of some new and improved forms or types—according to what we have been aiming for and I know that previous to the knowledge of this law, hundreds of crosses were thrown away every year instead of retaining them for the breaks which would naturally appear in the next generation.

To those who have the patience and the garden room to spare, for seedlings in the course of two or three years do take up a lot of space if the hybridizer is making many crosses, the raising of new varieties is a most interesting pastime, but it is well to count the cost ere starting, as no results can possibly be attained until the second generation, that is, two years from the date of making the cross, and two or three years more must elapse ere the grower can satisfy himself that the stock is truly fixed.

According to the varieties which have been mated, something very fine may appear the first year, that is what is termed in Mendelism first generation, or F. I., but the variety is never fixed and always breaks up in F. 2, or second generation, and I was greatly surprised to observe quite a number of new sweet peas advertised for registration in the trade papers early this spring, as first generation selections, when it is an established and indisputable fact that no variety is fixed in the first generation.

Problems of the Future.

Has the sweet pea reached its zenith, or are there new forms and colors yet to be evolved by the specialist? Judging by the introductions of the past few years which includes such magnificent novelties as Elfrida Pearson, Stirling Stent, Thos. Stevenson, Charles Foster, Prince George, Orchid, Decorator and Edith Taylor, just to mention a few, the sweet pea is still in its infancy, and we may hopefully look forward to be yet further delighted with marvelous new shades or types, but so much has been said and written lately about sweet pea diseases that if we would believe all we read on the subject, the days of the sweet pea are numbered. Now I, for one, do not believe this to be the case, for having been in touch with sweet peas practically all my life, I have only observed isolated instances of disease nowhere have I ever seen it in the form of a scourge. About this time in some sections of Pennsylvania we lose plants wholesale, but my observations have led me to the conclusion that this is simply due to extreme heat and drought, and it is worth noting that fall planted peas are less liable to go off as early in the season as those sown in spring, this being undoubtedly due to the fact that the former has made better, and in most instances deeper, root growth, the plants being therefore more able to withstand extreme heat and drought. This drying up of the vines I have often heard called blight, but it is simply as I have already stated, the effects of continued dry weather and extreme heat, therefore, when I mentioned disease I had in mind "Streak." *Thielavia Basicola*, which has troubled so many growers in England.

Streak Disease.

The majority of the scientists who have studied streak disease seem to have arrived at the conclusion that errors in manuring and watering were the cause of the trouble. While located in England, where I grew sweet peas on a large scale for exhibition purposes, I have in some seasons had many rows of plants flooded for several days in succession, during excessive rainfalls, and yet no bad effects followed, this being doubtless due to perfect drainage and deep trenching. The fact, therefore, leads me to the conclusion that the wrong use of manures may be the source of the trouble. We are told that all nitrogenous manures must be withheld from the sweet pea, for as it belongs to the leguminosae family of plants, all of which are capable of assimilating the free nitrogen of the atmosphere, it is unnatural to feed it nitrates, as by so doing the nitrogen gathering bacteria in the root nodules die of inanition and the plant is therefore susceptible to disease. Therefore, where disease has prevailed it is well to avoid the too free use of farmyard manure. If the soil must have humus, apply the dung to the previous crop, or use it only in a thoroughly rotted condition, as in that state most of the nitrogen will previously have been liberated.

HYDRANGEA MADAME MOUILLERE.



The illustration shows a truss of this fine hydrangea, one of the French novelties lately introduced. The flowers are very large, pure white, with carmine point in centre, and form a noble truss. We are indebted to Donald McKenzie, Chestnut Hill, Mass., for the photograph.

A CORRECTION.

HORTICULTURE:

Gentlemen—In your publication of July 12th, in your notes about Saint Louis, you have a statement to the effect that Mr. W. S. Wells has formed a partnership with me in the landscape business. Though Mr. Wells will become connected with me this month in the capacity of superintendent, there is no partnership formed as you have stated.

Trusting that you will correct this in your next issue, I am,

Yours truly,

CHARLES W. FULLGRAF

The KENILWORTH Giant Pansy



Pansies in Separate Colors.

seeds are all grown by myself and are offered in the following mixtures and separate colors:

KENILWORTH STRAIN—The flowers are of perfect form and substance; many of the immense flowers are from 3½ to 4 inches; it is a striking collection of beautiful colors and markings, rich with shades of red, brown, bronze, mahogany and many others too numerous to mention.

KENILWORTH SHOW—An extra fine strain of large flowers; the immense flowers are of circular form and great substance; a beautiful collection of colors and markings.

KENILWORTH CUT FLOWER MIXTURE—Is a distinct class by itself, surpassing all other strains as a cut flower or for exhibition purposes, for inside or outside growing; the large flowers are carried erect above the foliage on heavy stems, 7 or 8 inches long, in the most graceful manner, and stand the hot, dry weather well.

MASTERPIECE—A remarkable type; the curled, wavy petals giving the flower a double appearance, its large flowers of great substance, on long, strong stems.

ORCHID FLOWERED, Mixed—A dwarf free bloomer with a range of delicate colors that do not exist in any other pansies, a remarkable combination of light rose, shell pink, blush mauve, fawn, light brown, orange and chamois.

NEW SEED NOW READY.

1000 seeds, 25c; 5000, $1.00; ¼-oz., $1.25; 1 oz., $5.00.

	1000 Seeds
Giant Adonis, light blue with yellowish white face, large dark blotch	$0.25
Giant Emperor William, ultramarine blue with purple violet eye	.25
Giant King of the Blacks, coal black	.25
Giant Lord Beaconsfield, violet upper petals shading to white	.25
Giant Yellow, pure golden yellow	.25
Giant Yellow, with dark blotch	.25
Giant White, satiny white	.25
Giant White, with large violet center	.25
Giant Red, a fine mixture of red shades	.25
Giant, royal purple, fine large flower	$0.25
Giant, bronze and copper mixture	.25
Giant, light blue, sky blue	.25
Giant, dark blue, deep blue shades	.25
Giant Zebra, mixed shades, striped	.25
Giant McKinley, yellow, each petal blotched with a deep reddish brown	.25
Giant Psyche, ruffled violet white margin	.25
Giant Mad. Perret, red and wine shades	.25
The preceding 15 sorts mixed in equal proportions	.25

Any 5 pks., $1.00; any 11 pks., $2.00.

Rainbow is a mixture of the most beautiful, gorgeous colors; blotched, striped, veined, margined, etc. With every $1.00 worth of pansy seed I will send 100 of Rainbow free and with other amounts at same proportion.

Chas. Frost
Kenilworth, N. J.

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St

Tel. 2890 Bedford BROOKLYN, N. Y.

CHRISTMAS PEPPERS

New Cluster Peppers, Celestial Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼ in. pots, $3.00 per 100; $25.00 per 1000; 500 or more at 1000 rates.

PRIMROSES OBCONICA AND CHINESE. The very best strains, strong plants from 2½-in. pots, $3.00 per 100, $25.00 per 1000.

FRANK OECHSLIN, 4911 Quincy Street, Chicago, Ill.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianæ, special fine type C. Dowiana, C. Gaskelliana, C. Percivaliana, C. speciosissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, Dekrysodoxum etc.

LAGER & HURRELL, Summit, N. J.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..**BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD.** An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..**BODDINGTON'S CHRISTMAS PINK.** This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.15	.50	.85	1.50
..**BODDINGTON'S CHRISTMAS WHITE.** A companion to our Christmas Pink. Just as free and profuse a bloomer	.15	.50	.85	1.50
..**ANGELINO.** Self pink; new variety	.50	1.50	2.75	4.50
..**CANARY.** Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..**FLAMINGO.** Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..**CHRISTMAS METEOR.** Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..**CHRISTMAS STELLA MORSE.** Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..**FLORENCE DENZER.** Pure white	.25	.75	1.25	2.00
..**LE MARQUIS.** This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..**MISS HELEN M. GOULD.** White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..**MISS JOSEY REILLY.** Lilac very large flowers	.35	1.00	1.75	3.00
..**MRS. A. FARENWALD.** Extremely large; dark pink. Very early	$1.00			
.**MRS. E. WILD.** Carmine or dark pink	.25	.75	1.25	2.00
..**MRS. ALEX. WALLACE.** Lavender; very scarce	.35	1.00	1.75	3.00
..**MRS. HANNAN.** Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..**MRS. JAMES WHEELER.** Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..**MRS. WM. SIM.** Salmon pink	.30	1.00	1.50	2.50
..**MRS. GEO. LEWIS.** Large, pure white, wavy flower	.25	.75	1.25	2.00
..**MRS. W. W. SMALLEY.** Satiny pink	.35	1.00	1.75	3.00
..**MRS. F. J. DOLANSKY.** Daylight pink	.50	1.50	2.25	4.00
..**MRS. CHAS. H. TOTTY.** Sky blue; late	.35	1.00	1.75	3.00
..**MRS. ZVOLANEK.** Blue, variegated; good for variety	.50	1.50	2.75	5.00
..**ORANGE BIRD.** Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..**PINK BEAUTY.** Large open flower; rose pink. Fine for florists	.50	1.50	2.75	4.50
..**WALLACEA.** Very scarce. Very fine lavender; a grand florists' variety	.50	1.50	2.75	5.00
..**WATCHUNG.** Pure white	.35	1.00	1.75	3.00
..**WINTER CHEER.** Wavy, large white flower	.50	1.50	2.75	4.50
..**WM. J. STEWART.** Blue self	.35	1.00	1.75	3.00
..**ZVOLANEK'S PINK.** Soft self pink. Large flower	1.00			

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY ..... STATE .....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

NEWS FROM THE CONVENTION CITY.

A letter just received from Secretary John Young states that the outdoor planting exhibition, under the able supervision of Vice-President Wirth, is in splendid shape and will be in the best possible condition at the time of the convention. Mr. Young says that this exhibition is going to make the visitors "sit up and take notice." We are glad to learn through him also that the Minneapolis boys are working together with admirable spirit and harmony and that everything looks very promising there for a rousing fine convention.

Anyone desiring to secure trade exhibition space or information on any matter connected with the forthcoming convention should write to John Young, Secretary, at Hotel Andrews, Minneapolis, Minn. Do not delay another day if you want exhibition accommodations.

NEWS NOTES.

Pine Bluff, Ark.—The Bluff City Seed & Floral Company has gone out of business.

Osceola, Ia.—C. I. Long has purchased the nursery known as the Van Nelson Estate.

Woodville, Pa.—Robert Walthers has purchased the property of the Woodville Floral Company and will improve the plant and operate it.

Clarksville, Mo.—Arthur Norton has taken U. E. Thurmond as a partner in his nursery and the firm name hereafter will be Norton & Thurmond.

In the list of awards at the Newport show it was stated that four bronze medals had been awarded to Jackson Dawson for roses. Mr. Dawson has been informed since that the awards were three bronze and one silver medal, the latter being for rose Lady Duncan.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ....

July and August Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building

ROCHESTER, NEW YORK

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists — Rutherford, N. J.

To make room for planting will sell out the balance of my Rose Stock at a greatly reduced price

White Killarney — Pink Killarney — Mrs. A. Ward
Richmond — Hillingdon — Killarney Queen
American Beauty — Kaiserin Augusta Victoria

The Above is all Clean, Healthy Stock

W. H. ELLIOTT, - - - Brighton, Mass.

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK

W. B. WHITTIER & CO.,

SOUTH FRAMINGHAM . . MASS.

GROWERS OF HIGH GRADE NURSERY STOCK

LARGE ASSORTMENT

WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

500 Bon Silene—4 in.
$8.00 per hundred

500 Richmond—4 in.
$8.00 per hundred

500 Radiance—3 in.
$8.00 per hundred

CHAS. H. TOTTY

MADISON, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 &29 OCEAN ST., ∴ BEVERLY, MASS.

PHOSPHORUS

A seven-inch potfull of Davidge's Special Phosphorus mixed with a wheelbarrow of soil when planting or potting; then, when roots are established, a small pailful scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag (200 lbs.) $5.50. Over 500 lbs., at the rate of $40.00 per ton.
WILLIAM M. DAVIDGE.
P. O. Box 5. - - Brooklyn, N. Y.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N. J.

Horse Stable Manure

NATURALLY ROTTED DRIED AND GROUND

HIGH GRADE, IMMEDIATE, NUTRITIOUS and LASTING. CONVENIENT and COMPACT

An odorless natural Manure for use of Florists, Landscape Gardeners, Truck Growers and Farmers, and for general Farming purposes.

For mixing with soil for Potted Plants; for Field Crops; for Grass and Lawns, and for Vegetable Gardens, promoting rapid, steady growth.

PUT UP IN BAGS, 100 LBS. EACH

Descriptive Folder and Prices upon application.

—SOLD BY—

NEW YORK STABLE MANURE CO.

273 Washington Street, JERSEY CITY, N. J.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY
CORRESPONDENCE SOLICITED



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

TOBACCO DUST

Good old black kind does the work

100 lbs. $2.00

Wm. Elliott & Sons
42 Vesey St., New York

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One Gallon KIL-WORM makes 50 gallons liquid when mixed with water.

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL-WEED diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to
B. HAMMOND, - Fishkill-on-Hudson, New York.

SEED TRADE

California Seed Crops.

A letter from the Braslan Seed Growers' Co., San Jose, Cal., to Winterson Seed Co., Chicago, contains the following information on seed crop conditions:

"Crops exceedingly light, due to dry weather and late frost and now at this late date we find the crops of sweet peas on our ranches are being ruined by aphis. Our loss will be principally on named varieties.

"We also find stands of lettuce reduced by dry rot, among leading varieties. There was also not enough moisture in the ground for root crops, such as beets, carrots, parsnips, salsify. There was not enough moisture for roots to take hold when planted and result was some decayed, some were killed by frost and the balance apparently surviving on nourishment from roots themselves, and when this is gone the plant dies.

"From present observations we feel warranted in stating that we shall not make more than 25 per cent delivery on beets and still less on named sweet peas. Mixed peas were further advanced and podded before the aphis came. Will fill in full on mustard and hope to make good delivery on salsify, parsnip, parsley and some varieties of carrots. Crops of Oxhearts, French Forcing and Scarlet Horn suffered less than other varieties.

"Of yellow and red onions there are less than 50 per cent of a normal crop; of white even less. Stocks are shorter and fewer, heads small and rather loose. Hot winds now would greatly reduce crop still more."

Charles J. Bolgiano has been appointed a committeeman representing the Merchants' and Manufacturers' Association on the Board of Trade of Baltimore City for the purpose of promoting the plans leading to the success of "Maryland Week" at which time the great horticultural and floral exhibition is held in the mammoth armory. Mr. Bolgiano recently acquired the entire interest of the old-established firm of J. Bolgiano & Son.

PERSONAL.

George McWilliam, Whitinsville, Mass., is reported to be quite ill.

H. B. Rahaley, of Detroit, Mich., has returned from a two weeks' tour through the Berkshire Hills.

Reginald Beal, of Carter, Dunnett & Beal, London, sailed from Boston for home on the Cincinnati, last Tuesday.

A post card from David Welch of Welch Bros., Boston, states that he arrived safely at Mallow, Ireland, on July 3.

Leonard Barron editor of the Garden Magazine, expects a visit from his sister, who sails from Liverpool on the Carmania on Saturday, July 19.

Our Detroit correspondent is enthusiastic over the quarter million carnation plants which Mr. Stahelin and Mr. Brown have in the field; the hardy herbaceous flowers which Robert Klagge and Sidney Tinkler are producing; J. F. Sullivan's 25,000 chrysanthemums of high degree; J. E. Carey's Rhea Reid roses; and the visit of F. J. Knecht to the Mt. Clemens growers in company with a Detroit trio.

Cincinnati vacationists: Mrs. Gus Adrian and daughter, Miss Jennie Adrian leave for the Chenaux Islands on Saturday. Mr. Adrian will follow in about a fortnight.—Geo. Corbett and daughter are at Niagara Falls, N. Y., for a few weeks.—William Murphy, C. C. Murphy and Thos. Windram leave on Wednesday to visit relatives of Mr. Murphy in California. Thence they will go via boat and Canada to Cheneaux Islands.—A. C. Heckman, Jr., of the Cincinnati Cut Flower Exchange, his wife and a number of their friends spent the week-end at Armstrong Lake, Ky.—J. F. Conger and wife are at Wichita, Kan., for a month's visit.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

TRIUMPH OF THE GIANTS MIXED

Robust grower; flowers of extra large size; many beautiful, rich and rare shades. Half trade pkt., 60c.; trade pkt., $1.00; $1.75 per ¼ oz.; per oz., $6.00.

	Tr. pkt.	Oz.
Bugnot, Odier and Cassier	$0.50	$4.00
Giant Trimardeau. Mixed	.30	1.25
Mad. Perret	.50	2.50
Masterpiece	.50	4.00
Odier or Blotched	.50	3.00
Parisian Large Stained	.40	2.00
Finest English Mixed	.25	1.00

GIANT PRIZE PANSIES

In Separate Colors

Please do not compare these with the ordinary Giant Trimardeau; the seed we offer will produce flowers of much heavier texture.

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

Also all other Seasonable Seeds and Supplies for the Florist. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market Street Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

When writing to advertisers kindly mention HORTICULTURE.

STRAWBERRIES

FARQUHAR'S POT-GROWN PLANTS

NOW READY!

FULL CROP NEXT SUMMER IF PLANTED EARLY

Write for our Mid-summer Catalogue of Varieties for July and August Planting

R. & J. Farquhar & Co.

6 & 7 South Market St.

Boston, Mass.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

VICK'S GIANT SUPERB PANSY SEED

½ oz.	¼ oz.	oz.
75c.	$1.35	$5.00

All Leading Named Varieties Pansies. All Varieties of Flower Seeds for Mid-Summer Sowing. Choice Strains.

Write for Special Prices.

Rex Begonias..... $3.00 per C.
Asparagus Sprengeri..... 2.50 per C.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO.

SEASONABLE

SEEDS

AND SUNDRIES

For the Florist

BOSTON

FANEUIL HALL SQUARE

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

FREESIA BULBS

(Refrecta Alba)

No. 1, ½ inch and up, $5.50 per 1000
No. 2, ⅜ inch and up, $3.50 per 1000

Net, F. O. B. Los Angeles, July delivery

ASPARAGUS PLUMOSUS seed $2.00 per 1000 post paid

MORRIS & SNOW SEED CO.

425 South Main Street, Los Angeles, Cal.

When writing to advertisers kindly mention HORTICULTURE.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

Lily of the Valley Pips

We have on hand a few cases of Lily of the Valley Pips (3000 to case), Berlin and Hamburg, which we offer at

$32.00 Per Case (of 3000)

J. M. Thorburn & Co.

53 Barclay St. **NEW YORK**

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders

IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Fort Collins, Col.—Espelin & Warren are now located at 111 East Oak avenue.

Portland, Ore.—Fred C. Fowler has purchased the business of the Forest Grove Floral Co.

Milton, Mass.—M. D. Ward has taken over the business of his father, W. C. Ward, who has retired.

Los Angeles, Cal.—Frank Lichtenberg has moved from his old store on 5th street to the Hollingsworth Building.

STEAMER DEPARTURES

Allan.
Pomeranian, Montreal Havre..July 20
Tunisian, Montreal Liverpool..July 22
Parisian, Boston-Glasgow.....July 25

American.
St. Paul, N. Y.-Southampton.July 25

Atlantic Transport.
Minnewaska, N. Y.-London...July 26

Cunard.
Laconia, Boston-Liverpool....July 22
Mauretania, N. Y.-Liverpool..July 23
Saxonia, N. Y.-Medit'eranean..July 29

French Line.
France, New York-Havre.....July 24
La Savoie, New York-Havre..July 31

Hamburg-American.
Amerika, New York-Hamburg.July 23
Pres Lincoln, N. Y.-H'mburg.July 24
Pennsylvania, N. Y.-H'mburg.July 31

Holland-America.
Noordam, N. Y.-Rotterdam....July 22
Ryndam, N. Y.-Rotterdam....July 29

Leyland.
Devonian, Boston-Liverpool...July 26

North German Lloyd.
K'is'r W'h'm II, N. Y.-Br'm'n.July 22
Pr'z Fr'd'h W'h'm, N. Y.-Br'n.July 26
Kr'np'nz W'h'm, N.Y.-Br'm'n.July 29
Barbarossa, N. Y.-Bremen....July 31

Red Star.
Lapland, New York-Antwerp..July 26

White Star.
Celtic, New York-Liverpool...July 24
Teutonic, Montr'al-Liverpool..July 26
Arabic, Boston-Liverpool.....July 29
Cedric, New York-Liverpool...July 31

Albany, N. Y.—Thomas Tracy, manager of the Albany Cut Flower Exchange, is on his vacation at Indian Lake with Mrs. Tracy.

Albany, N. Y.—The Rosery, Steuben street, has leased the greenhouse and conservatory of the Dietrich Estate, corner of Chapel and Columbia streets.

Providence, R. I.—The new McCray refrigerator, which will soon be installed in T. O'Connor's store, is one of the largest of its kind ever built. Dimension, 12 feet wide, 6 feet deep and 13 feet high, and will hold from 1500 to 1800 lbs. of ice.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Alfred T. Bunyard, 413 Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

NEW FLOWER STORES.

Fowlerville, Mich.—Mrs. August Klein.

Toledo, Ohio.—Metz & Bateman, 414 Madison avenue.

IN BANKRUPTCY.

Muncie, Ind.—Muncie Floral Company, Frank R. Wilson, receiver.

Louisville, Ky.—Edward G. Reimers, florist, liabilities, $29,000; assets, $36,000.

INCORPORATED.

Mobile, Ala.—Bechtel Swarwout Horticultural Company, capital stock, $25,000.

Castleton-on-Hudson, N. Y.—Prospect Hill Nurseries, capital stock, $10,000. Incorporators, Borden H. Mills, Edwin and Luana A. Bell.

New York, N. Y.—The stockholders of the New York Market Florists' Association will hold their next regular meeting at 261 Broadway on Monday, July 21st, at 12 o'clock noon, for the election of directors and any other business that may come before the meeting.

HOT WEATHER HELPS
Rice's Standard Cycas
Rice's Wheat Sheaves
Rice's Magnolia Leaves
Rice's Oak Leaves
Best Prices Obtainable
Catalogue on Request
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

HOUSE-CLEANING.

Everybody loves to enter an attractive store; so it is up to you to make it such and usually the quiet summer season is the time to begin to think of making it as pretty and inviting as your artistic knowledge of interior decorating will permit. Of course, we all understand you may have to invoke aid either from outside your establishment or some of your help may be capable of assisting you in changing the scene of last year, thus showing your customers that you are a wide-awake florist.

For instance, if your store interior has been painted white for the past few years, change the aspect by introducing soft tints which will harmonize with all flower colors that you are likely to handle throughout the season. Very soft tones of green, a delicate shade of blue almost fading to white, and for those preferring dark colors where the store receives the benefit of plenty of sun, a mottled green giving an antique effect, or mission tints, are all very good.

Painting having been completed we now turn our attention to chandeliers, counters, mirrors, etc. The polishing of metals, bleaching of marble work and changing a little here and there will make quite a difference in appearance and will show that an interest has been taken to hold the old customers and encourage new ones to enter when business starts up again.

This work should never be attempted before August, as the heat, dust and flies will soon remove the fresh look from the work and the later it is done the better. Housecleaning finished we await the fresh stock of plants to arrange around the store, and the finishing touches are put on when the early chrysanthemums begin to arrive, and remind us that the new season has opened.

MR. STOREMAN.



CHICAGO NOTES.

Jack Boyers is back from Michigan. Miss Parker and Miss Conner will have a cruise on the Lakes. Mr. Pehrson, of Pehrson & Morine, is at White Lake.

Mr. and Mrs. P. J. Foley have gone on a trip to Montana where they will visit Mr. Foley's brother, and from there will probably go to the coast. It is the first vacation in seven years and Mr. Foley has earned a right to it.

Frank Oechslin's large auto truck was pressed into service again by E. Wienhoeber to carry the flowers at a recent funeral, showing that the mainstay of the florists' trade is holding its own. Flowers for funerals will not lose their popularity so long as the trade is handled properly.

This week closes operations in the present quarters of the Foley Manuf. Co., at 26th street and Western avenue, where their holdings of 48 city lots touching the C. B. & Q. made an ideal location for the past seven years. Now the elevation of the tracks and the judgment of $22,000 against the railroad, just won in a suit by the Foley Manuf. Co. leaves them in position to seek another location. Several desirable sites are under consideration and the choice will be made very soon.

The Municipal Art Committee of the City Club is sparing neither time nor money to fight the bill-board nuisance. In some of the best parts of the city, bill-boards have been erected contrary to the city ordinance which requires the consent of the majority of the property holders on both sides of the street, in the block containing the boards, to such an extent that property owners lose all interest in beautifying their grounds. The committee is so much in earnest that it is meeting all expense of prosecutions.

Chicago's fifty-five miles of boulevard will now be joined in one unbroken chain, the missing link on Michigan avenue being voted by the city council, July 14th, in the form of a two-level bridge costing $7,000,000. It is an important part in carrying out the plan to beautify the city and calls for the widening of Michigan avenue from Randolph street to East Chicago avenue. The upper level of the bridge will be for boulevard traffic and pedestrians and the lower one for other traffic.

The plant growers are having their quiet time, so far as sales are concerned, but are getting ready for the fall and winter trade. There are no blooming plants to be had. Fancy-leaved caladiums and crotons lend a little color for window decorations, supplemented by the green and white foliage of Pandanus Veitchii, aspidistra and Dracaena Massangeana and backed up by the ever necessary ferns and palms. Boston ferns, always scarce here in the summer, are unusually so this year. Cherries and Christmas peppers, so popular since the improved sorts have been in, are now calling for their share of attention. Among the best new additions are the New Cluster, sent out last year. There is a new type of that on the market this year for the first time, having a branching habit of growth and distinguished by having the fruit well above the foliage, a decided advantage. Solanum Melvinii, the form of Jerusalem cherry from Boston, carries the fruit well above the foliage. Both this and the peppers have smaller fruit than the old types, are brilliant in coloring and do not drop fruit or foliage. Fine stock of both are seen at Frank Oechslin's. Orders are being filled rapidly for the plants, without which Christmas would scarcely be Christmas with the retail florist.

Visitors: John Young, N. Y., on his way to Minneapolis, Minn.; H. L. Hill, Maquato, Iowa; Mr. and Mrs. J. C. Ellsferman, Evansville, Ind.; Herman Holtz, Hammond, Ind.

WASHINGTON NOTES.

All but about three of the downtown establishments are now closed at 1 o'clock on Sundays and this hour will be observed throughout the summer months.

A number of local merchants have complained to the police that their stores have been entered by thieves. Some one broke into the store of F. H. Kramer at 722 Ninth street, N. W., forcing the rear door, and ransacked the place, although obtaining nothing for his trouble.

The vacation season finds many of the clerks in the stores away or planning extensive trips. Walter Hawley and Lewis Holman, with Gude Bros., are in New York; Raymond Garrett, who is connected with O. A. C. Oehmler, is in Mannassas, Va. Fred H. Kramer and Adolph Gude are preparing for their trip abroad with the Minute Men of America in the fall.

Plans are progressing for a joint outing of the Bowling Club of the Florists Club of Washington and the Kallipolis Grotto, to be held at Chesapeake Beach on August 5. Among other features will be a circus on the Boardwalk which will prove a great attraction, and there will also be the usual athletic events. The local people will be joined by the members of the Baltimore Gardeners' and Florists' Club and their friends, who will hold an outing on the same day.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

THE NEW SEASON GOODS

Are beginning to arrive. Now, while you have a little let-up, is the time to look them over. We can send you some bewitching samples if you just speak up. There is money this hot weather especially in the use of Artificial Flowers as Decorative Accessories to Fresh Material. We have Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO., The Florists' Supply House of America **1129 Arch St., Philadelphia, Pa.**

CLUBS AND SOCIETIES

ST. LOUIS FLORIST CLUB.

The members of the St. Louis Florist Club spent a most delightful afternoon at the J. F. Ammann Co.'s plant at Edwardsville, Ill., on Thursday, July 10th. Some fifty members took advantage of the kind invitation of Mr. Ammann to hold their regular monthly meeting at his place.

The members arrived at the place at 2 o'clock. After an interesting tour of the greenhouses the meeting was called to order on the lawn under the big shade trees. The picnic committee reported everything in readiness and the weatherman had promised them good weather for the event.

State Vice-President Denker of the S. A. F., reported that the official route to the convention will be the Streckfus steamboat line and The Quincy, the boat which leaves Thursday, August 14th, arriving Monday, August 17th, at St. Paul, the fare to be $28, $32 and $35, according to location of staterooms.

H. C. Irish and F. Robinson reported on the flower show. The preliminary list is ready and was accepted by the members and a committee of 20 were appointed to raise this fund among the local florists.

Nomination of officers then took place. They were: W. J. Pilcher, C. C. Young and Edwin Denker for president; A. Janiecke and H. Blixen for vice-president; J. J. Beneke for secretary; W. C. Smith for treasurer; and F. Windler, M. Moran and C. Bergestermann for a three-year term of trustee. When the meeting adjourned Mr. Ammann announced automobiles were in waiting for the members to be taken on a tour of the city by the Edwardsville Automobile Club. On our return we found our meeting place turned into a banquet room. We drank to the health of Mr. Ammann and his company. A vote of thanks was extended for his hospitality and we surely spent the best afternoon in many years.

CHICAGO FLORIST CLUB.

The Chicago Florist Club held its regular meeting July 10th at Hotel La Salle. The Good of the Club committee reported, recommending a picnic at Eckhart's Grove, Park Ridge, August 31st. The recommendation was concurred in and the committee was given full power. The sports committee has purchased gloves, bats and balls, and are getting in fine shape for the ball game. The transportation committee reported that a number of letters were received from clubs and individuals stating that they would join the Chicago Florist Club at Chicago en route to the convention city, Minneapolis, next August, on Chicago Florist Club "Special de Luxe." A vote of thanks was also extended to Poehlmann Bros. Co. for excellent exhibit of carnations. Many letters of thanks from storm and flood victims who have received donations were received and read.

O. J. Friedman extended an invitation to the club to hold its next meeting at Sans Souci Park and same was accepted. Mr. Deamud was appointed as a committee of one to make all necessary arrangements for this meeting. It was decided to have the La Salle our permanent meeting place after the next meeting.

Ed. C. Toepel, Sec.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The annual picnic of the club will be held at Cunningham Park, East Milton, on Wednesday, July 23, 1913. The picnic grounds, which pleased everyone so much a year ago, are very beautiful. There is ample shade, suitable buildings and a splendid field for the sports, which latter will commence at 10 A. M., sharp.

Some of the special features this year will be the ladies' baseball game, obstacle race, fat man's race (limit, 185 pounds), half-mile race and several special contests for ladies. Members, their wives and families, can compete in the various contests. The picnic grounds are easily reached by either electric or steam cars, and a cordial invitation is extended to everyone, no matter whether connected with the club or not, to be present. A fine array of prizes has been secured as usual.

W. N. Craig, Secretary.

SOCIETY OF AMERICAN FLORISTS.

Trade Space Reserved.

Space is being rapidly reserved in the trade section of the coming great convention. The following is a list of firms who have reserved largely of space:

Advance Co., Richmond, Ind.
Aphine Mfg. Co., Madison, N. J.
Arnold, A. A., Chicago, Ill.
Ball, Charles D., Philadelphia, Pa.
Ball, Estate of Lemuel, Philadelphia, Pa.
Barnard Co., W. W., Chicago, Ill.
Castner, Curran & Bullitt, Inc., Chicago, Ill.
Childs, John Lewis, Flowerfield, N. Y.
Coldwell Lawn Mower Co., Newburgh, N. Y.
Cowee, Arthur, Berlin, N. Y.
Craig Co., Robert, Philadelphia, Pa.
Critchell, C. E., Cincinnati, O.
Dreer, H. A., Philadelphia, Pa.
Dreyer & Son, H. G., Cleveland, O.
Hedstrom & Co., E. L., Chicago, Ill.
Henderson & Co., A., Chicago, Ill.
Hitchings & Co., New York, N. Y.
Ionia Pottery Co., Ionia, Mich.
Jackson & Perkins Co., Newark, N. Y.
Knight & Struck Co., New York, N. Y.
Koerner, H. W., Milwaukee, Wis.
Lord & Burnham Co., New York, N. Y.
Manda, W. A., South Orange, N. J.
Michell Co., H. F., Philadelphia, Pa.
Michigan Cut Flower Exchange, Detroit, Mich.
Moninger Co., John C., Chicago, Ill.
Pennock-Meehan Co., S. S., Philadelphia, Pa.
Perkins-King Co.
Peterson & Sons, J. A., Cincinnati, O.
Pierson Co., Frank R., Tarrytown, N. Y.
Poehlmann Bros. Co., Chicago, Ill.
Pollworth Co., C. C., Milwaukee, Wis.
Quaker City Machine Works, Richmond, Ind.
Raedlein Basket Co., Chicago, Ill.
Randall Co., A. L., Chicago, Ill.
Revere Rubber Co., Boston, Mass.
Rice & Co., M., Philadelphia, Pa.
Stewart, E. E., Brooklyn, Mich.
Storrs & Harrison Co., Painesville, O.
Vaughan's Seed Store, Chicago, Ill.
Vincent, Jr., & Sons Co., Richard, White Marsh, Md.

John Young,
Supt. Trade Exhibition.

CLUB AND SOCIETY NOTES.

The Gardeners' & Florists' Club of Baltimore will hold their annual outing at Chesapeake Beach, August 5th.

The New London (Conn.) Horticultural Society held its monthly meeting on the 10th inst. It was devoted to sweet peas, of which there was a grand display of good quality blooms. Numerous Spencer varieties were shown.

Field Grown Carnation Plants

10,000 Alma Ward

At a special price, ready for early delivery, $7.00 per 100, $65.00 per 1000.

Rose Plants, Ready Now.

BEAUTIES, 2 1-2 inch pots, $8.00 per 100, $70.00 per 1000.
PINK AND WHITE KILLARNEY, 2 1-4 inch pots, $6.00 per 100, $50.00 per 1000.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

IF YOU want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE R THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Cut Flowers All the Year Round

33-35-37 RANDOLPH STREET, CHICAGO

Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 23			DETROIT June 30			BUFFALO July 7			PITTSBURG July 7		
Am. Beauty, Fancy and Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00	15.00	to	20.00
" " Extra	10.00	to	15.00	15.00	to	20.00	15.00	to	20.00	10.00	to	12.00
" " No. 1	6.00	to	10.00	10.00	to	15.00	8.00	to	10.00	6.00	to	8.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	2.00	to	4.00	2.00	to	4.00
Killarney, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Richmond, Maryland, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Bride, Maid		to		2.00	to	6.00	3.00	to	6.00		to	
Hillingdon, Ward, Melody, Extra		to		4.00	to	6.00	5.00	to	7.00	6.00	to	10.00
" " " Ordinary		to		2.00	to	4.00	2.00	to	3.00		to	4.00
Taft, Sunburst, Cardinal		to		3.00	to	6.00		to		5.00	to	8.00
Carnations, Fancy Grade	1.50	to	2.00		to	1.50	1.50	to	2.00		to	3.00
" Ordinary	.75	to	1.00		to	1.00	.75	to	1.00		to	2.00
Cattleyas		to			to	50.00	25.00	to	40.00	50.00	to	60.00
Lilies, Longiflorum	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00		to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00	4.00	to	8.00
Daises		to		.15	to	.25	.50	to	1.25	1.00	to	3.00
Snapdragon		to		2.00	to	5.00	2.00	to	3.00		to	
Sweet Peas	.15	to	.50	.25	to	.75	.20	to	.50	.50	to	1.00
Gardenias		to			to			to			to	
Adiantum		to	1.00	.50	to	1.00	1.00	to	1.50	1.00	to	1.25
Smilax		to	12.50		to	12.00		to	15.00		to	15.00
Asparagus Plumous, Strings (100)		to	50.00		to		40.00	to	60.00	35.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	35.00	35.00	to	50.00	35.00	to	50.00

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.

Phone Main 584. 316 Walnut St., Cincinnati.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE

Flower Market Reports

BOSTON Business is at a standstill in Boston. The first ripple of the summer resort demand has been felt within a day or two past, however, and it is hoped that things will now begin to move once more. Carnations are scarce, the growers generally having thrown out their old plants. In roses Carnot, Taft, Cardinal and Killarney Queen are surprisingly good for this time of the year. Sweet peas are still in evidence but are running very small and poor. Lilies continue plentiful. There is a moderate sale for cattleyas. Plenty of gladioli, America standing at the head of the list. A few small asters are being received.

BUFFALO There is practically no business to speak of, though stock still continues to come in quite heavy, especially carnations, which show the affects of hot weather. Roses are gradually going down. Maryland, Kaiserin and Ward are the best. Beauties are in heavy supply and the demand is lacking. Sweet peas have again come on and a good supply is had daily. It is only a matter of the wholesaler carrying all the stock and the retailer buying as is needed.

CHICAGO There has been considerable business done the past week, in spite of the fact that mid-summer conditions prevail. Stock is none too plentiful in good grades. Auratum lilies are coming now and find ready sale at 8 and 10 cents, most of them at the latter price. There are fewer longiflorums than a few weeks ago and the demand is stronger. Lilies and peonies are the two large flowers upon which the retailers depend for large work. There are still some good late peonies in white and several shades of pink, the darkest of which is Late Rose, of almost American Beauty shade. Sweet peas are practically done for. Some short ones are in this week, looking very fresh for July. Carnations are fast coming to an end. This applies to the great bulk, but there are always a few good ones. Roses are extremely small, but of fair quality. American Beauties vary, some growers having fine stock grown from young plants. Lily of the valley is good for midsummer. Ferns are coming fast and prices low. It is predicted that peonies will be with us at least till August 1st. Festiva Maxima and Late Rose are apparently as strong as they ever were. Some of the wholesalers who handle quantities of peonies think growers will receive almost or quite as much for their crop this year as last, for though the May frost destroyed a large part of the crop, the balance brought better prices. Victoria is again proving itself the best keeper in light tints. Though classed as white, it shows some pale pink and has marks in center like "drop white." Sweet peas in and about Chicago are not doing well, owing to extreme heat and lack of moisture. Gladioli are coming in badly burned by the sun; in many cases the foliage is so discolored as to appear to be variegated.

(Continued on page 89)



GLADIOLI

Splendid quality. All choice varieties and good, long, well flowered spikes, not the short stemmed stock as supplied by the nurserymen.

Augusta, King, Brenchleyensis, Shakespeare, America, etc. **$3.00 and $4.00** per 100, **$25.00** per 1000; America and other novelties **$5.00** per 100, **$40.00** per 1000.

ASTERS. Splendid quality; pinks, purples and whites; **$1.00** to **$2.00** per 100; a few extra choice at **$3.00** per 100.

CATTLEYAS. **$6.00** per doz.

VALLEY. Special, **$4.00** per 100; extra, **$3.00** per 100.

BEAUTIES. Best, **$3.00** per doz.; **$20.00** per 100. Plenty of medium, **$5.00, $10.00, $12.50** and **$15.00** per 100.

HEADQUARTERS FOR GREENS

Bronze Galax—$2.00 per 1000. Green Sheet Moss $3.50 per bag.
Sphagnum Moss—10-bbl. bales nicely burlapped, each $3.75; 5 bale lots $3.50 each; 10 bale lots $3.25 each.
Asparagus Strings—50c. each.
Asparagus and Sprengerii Bunches—50c. each.
Adiantum—$1.00 per 100.
Smilax 20c. per string. **Cut Hemlock** $2.50 per bdle. **Hardy Dagger Ferns**—Best quality, large, long fronds, $1.50 per 1000.

RIBBONS AND SUPPLIES.—Many new patterns in exclusive Ribbons. Write us for prices on these and on Supplies. Small shipments can be sent by Parcels Post at purchaser's risk.

During July and August we close at 5 P. M.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA	NEW YORK	WASHINGTON
1608-1620 Ludlow St.	117 West 28th St.	1216 H. St., N. W.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON July 17	CHICAGO July 14	ST. LOUIS July 14	PHILA July 14
Am. Beauty, Fancy and Special	15.00 to 20.00	15.00 to 20.00	30.00 to 40.00	20.00 to 25.00
" " Extra	8.00 to 12.00	10.00 to 15.00	20.00 to 25.00	12.50 to 15.00
" " No. 1	5.00 to 6.00	6.00 to 8.00	15.00 to 18.00	8.00 to 10.00
" " Lower Grades	1.00 to 3.00	2.00 to 4.00	3.00 to 8.00	2.00 to 6.00
Killarney, Extra	4.00 to 6.00	6.00 to 8.00	5.00 to 6.00	4.00 to 6.00
" Ordinary	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	.50 to 3.00
Richmond, Maryland, Extra	3.00 to 6.00	6.00 to 8.00	5.00 to 6.00	4.00 to 6.00
" " Ordinary	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	.50 to 3.00
Bride, Maid	.50 to 4.00	..... to	3.00 to 4.00	..... to .....
Hillingdon, Ward, Melody, Extra	3.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" " " Ordinary	.50 to 2.00	3.00 to 5.00	3.00 to 4.00	1.00 to 3.00
Taft, Sunburst, Cardinal	2.00 to 8.00	4.00 to 8.00	8.00 to 10.00	1.00 to 8.00
Carnations, Fancy Grade	.75 to 1.00	1.00 to 2.00	2.00 to 3.00	1.50 to 2.00
" Ordinary	.25 to .50	.50 to 1.00	1.00 to 1.50	.50 to 1.00
Cattleyas	25.00 to 35.00	25.00 to 40.00	40.00 to 50.00	35.00 to 50.00
Lilies, Longiflorum	3.00 to 5.00	8.00 to 10.00	8.00 to 10.00	6.00 to 10.00
Lily of the Valley	1.00 to 3.00	3.00 to 4.00	3.00 to 4.00	1.00 to 4.00
Gladioli	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00	2.00 to 4.00
Daises	.40 to .50	.25 to .75	1.00 to 2.00	..... to .....
Snapdragon	..... to	3.00 to 6.00	3.00 to 4.00	1.00 to 2.00
Sweet Peas	.15 to .25	.50 to .00	.20 to .35	.20 to .50
Gardenias	4.00 to 6.00	..... to	..... to	..... to .....
Adiantum	1.00 to 1.25	..... to 1.00	1.00 to 1.25	.75 to 1.00
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	50.00 to 60.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	25.00 to 35.00	35.00 to 50.00	25.00 to 35.00	25.00 to 50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 59

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending July 12 1913	First Half of Week beginning July 14 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Maryland, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Bride, Maid	.25 to 2.00	25 to 2.00
Hillingdon, Ward, Melody, Extra	2.00 to 4.00	2.00 to 4.00
" " " Ordinary	.50 to 1.00	.50 to 1.00
Taft, Sunburst	1.00 to 4.00	1.00 to 5.00
Carnations, Fancy Grades	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas
HAS. E. ROBINSON V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade



WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 87)

CINCINNATI The florists are hustling on to their vacations and the general exodus would seem to indicate that they were rather anxious to get away from the worries of the present light market. The supply continues light while the call for stock is tolerably good. Roses have not as yet shown a very perceptible increase in supply. The gladiolus supply has not yet increased sufficiently to make an appreciable difference in the condition of the market for this flower. Giganteum lilies sell well but pond lilies are slow. Snapdragon in lighter colors is proving good property.

NEW YORK Summer apathy pervades all departments of the trade. Stock being received is very light but it is more than sufficient for all legitimate needs. Lilies are still very abundant and requiring forced sales to hold down the surplus. American Beauty also is over-supply. Small roses from young plants are unsalable. Sweet peas are about finished. Garden flowers of various descriptions are acceptable to the retail stores where they help to give a bit of color to the show windows and call attention to the fact that flowers may be had within. Early closing and vacations are the rule now.

PHILADELPHIA There was a little more snap to the market after the Fourth and its holidays had become history, and for the past week things have gone fairly satisfactorily. On comparison, the month's trading so far has not fallen behind last year. In some quarters the reports are that it has really been better. Gladioli dominate the market at present, both in quantity and quality. Long stems, plenty foliage, fine large flowers, splendid varieties like America, Mrs. Francis King, Princeps, Shakespeare, etc., all well worth a good price. The sales on these were excellent and notwithstanding the large supply very few went a-begging at the end of the week. Asters are improving and are now cutting quite some figure as the carnations wane. In the rose market American Beauty and Perle are holding their own, and they are probably the two oldest roses we now have alive, commercially. The square foot has killed off many of the old and charming favorites, among them the Niphetos, which we heard one of the old-timers bemoaning this afternoon. Sunburst is cutting some figure as a summer rose—in addition to Taft and Maryland, which we have so frequently commented on of late. Of course, good flowers in all lines, as might be expected (with probably the exception of gladioli and lilies) are the exception, and the great majority of receipts can not be classed anywhere among winter standards. Sweet peas are on their last legs. We will not have them with us much from now until the indoor stocks appear again. Cattleyas few and market sluggish. Lily of the valley rather on the scarce side with quality all that can be desired. More than enough of all kinds of greens. Just at present such items as sphagnum can be secured at quite a saving from regular rates. This is one among the many little tips to the wide-awake —which will more than pay their annual subscription to HORTICULTURE —and which HORTICULTURE so generously hands out from week to week —without charging a cent.

ST. LOUIS The market is not in a very prosperous condition, very little stock coming in, and the business is at a low point. Stocks of all kinds is poor, and about the only good flower that came in was Beauties and lilies. Gladioli are not as fancy as in former years, owing to the long dry spell. Sweet peas are poor in quality, still they have a good demand as so little else is coming in at present.

WASHINGTON Market conditions present nothing unusual. Business is quiet and the flowers that are coming in show the effects of the heat. The retailers are not carrying any larger stock than is absolutely necessary, being well able to have their wants filled by the wholesale houses. Lilies are good and the same applies to gladioli. Asters are beginning to make their appearance and with two-foot stems. Some little difficulty was experienced last week in obtaining orchids, for which there was some demand.

Secretary John Young, of the S. A. F., left New York on Saturday, July 12, bound for Minneapolis where he will now take up his official quarters until after the convention in August.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending July 12 1913	First Half of Week beginning July 14 1913
Cattleyas	15.00 to 30.00	15.00 to 30.00
Lilies, Longiflorum	1.00 to 2.00	1.00 to 3.00
Lily of the Valley	1.00 to 2.00	1.00 to 3.00
Gladioli	2.00 to 6.00	2.00 to 6.00
Daises	..... to .50	..... to .50
Snapdragon	2.00 to 4.00	2.00 to 4.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

PHILADELPHIA NOTES.

Charles Sim of Rosemont sails for Europe on the 19th inst on a three-months' vacation.

M. Pappas has taken the store in the P. R. R. station at 32nd and Market street, lately occupied by W. Crawford.

P. Joseph Lynch of Newcastle, Indiana, is with us for a two week's visit. He reports that the floods of last spring cut into their three best weeks of spring.

Richard Umphried, whose sailing for Europe on the 12th inst., was announced in our issue of last week, surprised his friends that morning by getting married and taking the bride along with him.

Three steamers arrived on this side recently—the "Prinz Oscar," the "Frankfurt" and the "Taormina;" each with big shipments of the latest world creations in baskets and floral requirements—from the busy and clever fingers; from the highly trained and artistic designers of our friends and customers in the old world—and in this city one of the chief recipients was the "House of Rice." These new offerings they will soon show to the florists of the country for their profit, and for the delight of their customers.

Visitors: W. Siverling, Lancaster, Pa.; J. A. Newsham, New Orleans, La.; P. Joseph Lynch, Newcastle, Ind.; M. Henry Lynch, West Grove, Pa.

HOODOOED?

A message from Toledo, Ohio, brings rather sad news regarding the recent outing of the Florists. George Boyer fell in a running race and broke his nose, while in the same race Harry Heinle broke his big right toe. Frank Metz fell in a three-legged race and broke his collar bone. Thomas McGee was overcome while swimming and it took six people to revive him.

NEWS NOTES.

Salem, Mass. — Ettore Tassinare, who has been many years in charge of the greenhouses and grounds of the State Hospital at Danvers, has retired on a substantial pension.

Muncie, Ind.—It is reported that the Carnes Greenhouses, 1124 South Jefferson street, have been taken over by J. L. McKinley, who will operate them under the name of the South Side Floral Co.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASTERS

Strong seedlings, 1000 each, Crego, pink, white; Smith's Peerless, white; $3.00 per 1000. A. H. FANON, Southbridge, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers,
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Morris & Snow Seed Co., 425 S. Main St., Los Angeles, Calf.
Freesia Blubs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 202 Fairmount St., Lowell, Mass.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

Stecklings, Avalanche, 2½ inch pot plants, $2.00 per 100, $20.00 per 1000. R. C. $1.00 per 100. We can supply 4000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, $10.00 per 100.
JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers

William M. Davidge, P. O. Box 5, Brooklyn, N. Y.
Phosphorus.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

For List of Advertisers See Page 67

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Geraniums. Bargain in 4-in. S. A. Nutt, $4.50 per 100. All good, stocky plants. HARRY H. RAMSEY, Auburn, N. Y.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each. JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J
Aphine and Fungine.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tobacco Dust.
For page see List of Advertisers

INSECTICIDES—Continued

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MAD CHESERE, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

Wanted—For early Fall planting, nine thousand strong 3 or 4-year old California Privet. Quote lowest price F. O. B. Philadelphia. JOSEPH HURLEY, Haverford, Pa.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.

We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."

We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

Plant Trellises and Stakes. P. A. ANGIER & CO., Westboro, Mass.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's $1 doz. by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Continued

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.
For page see List of Advertisers.

Extra strong bench American Beauty plants, in fine condition, only $35.00 per 1000, $40.00 per 1000 in 500 lots; smaller lots, $4.50 per 100. THE FLOREX GARDENS, North Wales, Pa.

Roses—From 3-in. pots, Mrs. Taft, Double White Killarney, Richmond and Killarney Queen. Open to an offer. FLUSHING ROSE GARDENS, 69 Colden Ave., Flushing, N. Y.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Gigantic Pansy Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 82 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Sweet Pea Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragons. Rooted cuttings, fine strains of silver pink, white and yellow, $2.00 per 100; $15.00 per 1000. Pot plants one-third more. WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

R. & J. Farquhar & Co., 6 & 7 South Market St., Boston, Mass.
Pot-Grown.
For page see List of Advertisers.

Breck-Robinson Nursery Co.,
Lexington, Mass.
Pot-Grown.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

500,000 Extra Fine Celery Plants—Self-blanching, White Plume, Winter Queen, Giant Pascal, $1.00 per 1000. Dagger Ferns, $1.25 per 1000. Sheet Moss, bag, $1.25. Clump Moss, bag, $1.25. Rhododendron Leaves, 50c. per 1000. Cash with order. JOHN E. WHITE, Carpenterville, N. J.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING SWEET PEA SEEDS.
Arthur T. Boddington,
342 West 14th St., New York, N. Y.

GARDEN, FARM AND FLOWER SEEDS.
Kelway & Son, Langport, England.
For page see List of Advertisers.

HOT WEATHER HELPS.
M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

LILIUM HARRISII.
F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

LILIUM MYRIOPHYLLUM.
R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

NEW WINTER-FLOWERING SWEET PEA LIST.
Ant. C. Zvolanek, Lompoc, Cal.
For page see List of Advertisers.

THE KENILWORTH GIANT PANSY SEED.
Chas. Frost, Kenilworth, N. J.
For page see List of Advertisers.

SITUATIONS WANTED

WANTED—Position in wholesale or retail flower store. Chicago preferred. Good references as to experience and character. Address "A. A." care HORTICULTURE.

FOR SALE

FOR SALE

Retiring from Florist business in Toronto, will sell at a bargain, Wholesale Florist Business and Retail Stores, together or separate.

A. E. MOORE

69 Bay Street Toronto, Canada

FOR SALE OR RENT.

A good wholesale florist establishment of 35,000 ft. of glass and 25 acres of good land, with good house, barn and other buildings. Near Pittsburgh, Pa. For particulars write
W. F. LAUCH, NEW GALILEE, PA.

FOR SALE—One Lord & Burnham, 8-section boiler. A1 condition. New set grates. Used one season. W. W. EDGAR CO., Waverly, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE.

As Required by the Act of Congress, August 24th, 1912.

Publisher—Horticulture Publishing Co., Boston. Editor and Business Manager—Wm. J. Stewart. List of stockholders holding one per cent. or more of total amount of stock—W. W. Castle, N. F. Perkins, Wm. J. Stewart, J. K. M. L. Farquhar, P. Welch, David Welch, of Boston, Mass.; Estate of F. R. Mathison, Waltham, Mass.; J. H. Morton, Mattapan, Mass.; Thos. Young, Jr., W. F. Sheridan, F. H. Traendly, Chas. Schenck, John I. Raynor, New York City; W. F. Kasting, Buffalo, N. Y.; A. S. Burns, Elmhurst, N. Y.; H. H. Battles, S. S. Pennock, Philadelphia, Pa.; John Burton, Chestnut Hill, Philadelphia, Pa.; Estate of Carl Jurgens, Newport, R. I.; Philip Breitmeyer, Detroit, Mich.; Fred Lautenschlager, Chicago, Ill. Bondholders, mortgagees and other security holders—none. Borrowed money—none. Notes none.

Sworn to and subscribed before Notary Public by WM. J. STEWART,
Business Manager.

Boston, July 10, 1913.

For List of Advertisers See Page 67

Obituary

Joseph Clarke.

We sorrowfully record the death on July 13 of this old-time gardener at his home in West Manchester, Mass.

Joseph Clarke was born in Ireland, December 21, 1835. He came to this country when 17 years of age. His tastes for horticulture, inherited from his father, a nurseryman, led him to enter that field of work. He took charge of the estate of Mrs. T. W. Ward at Canton, Mass., and very soon began to give evidence of his skill as a plantsman and general cultivator. He became a member of the Massachusetts Horticultural Society in 1865, but prior to that he had been winning prizes at the exhibitions of that Society, cups being in his possession dating back to 1858. He has been an active devoted member of the Society from that time until the day of his death. In the history of the Massachusetts Horticultural Society, compiled by Robert Manning, Mr. Clarke's name is frequently mentioned as the exhibitor of new, rare or skillfully grown greenhouse plants, as well as strawberries, plums, etc. Bougainvillea spectabilis, now so generally known, was shown by him as a new and rare plant in 1865. In 1867 he is recorded as having made a superb exhibit of gloxinias, in 1869 the prize for best specimen flowering plant was given for his trained Rhyncospermum jasminoides and in 1872 the best specimen Indian azalea shown at Boston was his Princess Mary of Cambridge. He moved to Manchester, Mass., in 1882 where he spent the remaining active years of his life in laying out and planting the H. L. Higginson estate, noted as the most beautiful and romantic place on the famed North Shore. He helped organize the North Shore Horticultural Society and was its first president. Ten years ago he retired and devoted his remaining years to rest and the enjoyment of his home at West Manchester, where he was at all times ready to welcome with kindly hospitality any member of the craft who passed that way.

An old philosopher wrote: "It is a good thing to be rich and a good thing to be strong, but it is a better thing to be beloved of many friends." Joseph Clarke was beloved of everyone who knew him. He won the respect and affection of all by the nobility of his character and the simple integrity of his life. No truer man ever bore the title of gardener.

He leaves two daughters and one son, who is superintendent of the John E. Thayer estate at South Lancaster, Mass.

Mrs. Wm. R. Smith.

Mrs. Annie M. Smith, widow of the late William R. Smith, passed away last week at Mt. Hope, Baltimore, Md., and the body was brought to this city for interment at the Rock Creek cemetery beside that of her husband. Mrs. Smith was born in Colesville, Montgomery County, Md., in 1840, the daughter of Mr. and Mrs. Joseph Fawcett, who came to this country some years before from Leeds, England. In her youth and middle age Mrs. Smith was a very brilliant woman. She had a host of friends and was a noted figure in this city. About twenty years ago she was affected with a mental disorder and was sent to an institution in Baltimore where she remained until the time of her death.

E. B. Sutton.

E. B. Sutton, at one time a noted violet grower of Babylon, N. Y., died in New York on Wednesday, July 16. Mr. Sutton gave up his business a number of years ago on account of impaired health. He was a gentleman of refinement, impulsively generous and companionable. Although out of business he has been during the years of his retirement an almost daily visitor among his old-time acquaintances in the 28th street wholesale district, to exchange a cheery word and admire the flowers, of which he was very fond.

J. C. Lewis.

John C. Lewis, who for a number of years held the position of City Forester, of Philadelphia, died suddenly at Tyrone, Pa., on July 9. He was 66 years old. Mr. Lewis formerly had charge of the public parks in Richmond, Va., and in March, 1896, was appointed City Forester, which position he held until one year ago, when he resigned. Mr. Lewis was a native of Hereford, England, and at one time had charge of the growing department of the rose nurseries of Robert Scott & Son at Passyunk avenue, Philadelphia.

Oliver H. Weldon.

Oliver H. Weldon, an old-time florist of New Britain, Ct., died at his home, 16 Black Rock avenue, July 7th, aged 71 years. He retired from the trade about seven years ago. A son and a daughter survive him.

GREENHOUSES BUILDING OR CONTEMPLATED.

Bangor, Mich.—S. B. Hall, range of houses.

Macon, Mo.—Macon Greenhouses, addition.

Chesaning, Mich.—E. H. Adams, house, 20x50.

Brunswick, Me.—William Butler, house 45 x 150.

Greenville, Tex.—Wise Adkisson, two houses, 40x104.

Oakland, Cal.—Savagnio Rocco, 88th avenue, three houses.

Cincinnati, O.—F. E. Steinecker, Gray road, one house.

Cheswick, Pa. — McRae-Jenkinson Co., King house, 25x125.

Miles City, Mont.—Miles City Greenhouses, one house.

Farmington, Mich. — Farmington Greenhouse Co., three houses.

Eureka, Kan.—Eureka Greenhouses, one house, 25x80; one house, 25x60.

North Wales, Pa.—Fred Foulds, 90 ft. house; John Holt, King house 35x120.

Hartford, Ct.—J. Albert Brodrib, Mahl and Windsor avenue, one house; Edward Welch, Asylum street, house 60x350.

The King Construction Company of North Tonawanda, N. Y., have received an order from Mr. J. P. Morgan, Jr., for the erection complete of an extensive range of glass houses at his country place, Glen Cove, L. I. The range comprises houses for fruits, vegetables, flowers and general plants. The houses will be King "channel bar" with curved glass eaves, a construction which is practically all iron and glass. All the lower parts of the houses, including the heating pipes, are to be of cast iron. The steel work supporting the glass is to be zinc plated. What little wood is used will be air-dried California redwood, the best and most durable wood for greenhouse work.

At the recent joint exhibition held at Newport, R. I., Henry A. Dreer, Inc., Philadelphia, were awarded the prize of $25 offered by The Garden Association and Newport Horticultural Society, also the silver medal for their general exhibit and five first class certificates, for five new Nympheas.

We are pleased to hear good reports from those of our readers who have tried the odorless natural manure advertised by the N. Y. Stable Manure Co. of Jersey City, N. J. As all growers know, there is nothing equal to the natural material for promoting fertility in greenhouse or field and this product seems to fill the bill in all particulars.

KING
GREENHOUSES
are practical, first, last and all the time. Every detail is the result of careful study.
Sunshine makes things grow and a King simply captures every ray of sunlight.
Write us for information no matter how inexpensive or extensive a house you need..
Our users say we give great values. It will pay you to investigate.
KING CONSTRUCTION COMPANY
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER
POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

THE KROESCHELL GREEN HOUSE BOILER



WHAT THE USERS SAY

Kroeschell Versus Cast Iron

The No. 7 Boiler I bought from you is heating 14,000 sq. ft. of glass; I think it can take care of 16,000 ft. I do not have any trouble to keep up temperature of 50° in the coldest weather. I fire only once after 12 o'clock midnight. The boiler has given perfect satisfaction. I have four cast iron boilers—like the Kroeschell best of all. If anyone wishes to inquire about your boiler, let them write me, for I think your boilers are good ones.

CHARLES SCHULTZ,
Menominee, Mich.

Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA



FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

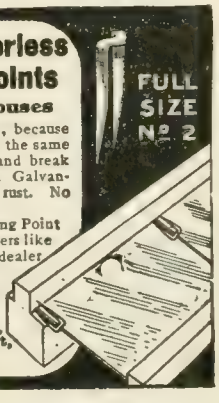
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.



PATENTS

Trademarks and Copyrights

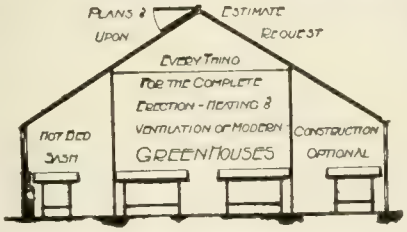
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



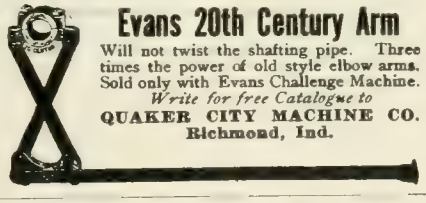
DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

Evans 20th Century Arm



Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

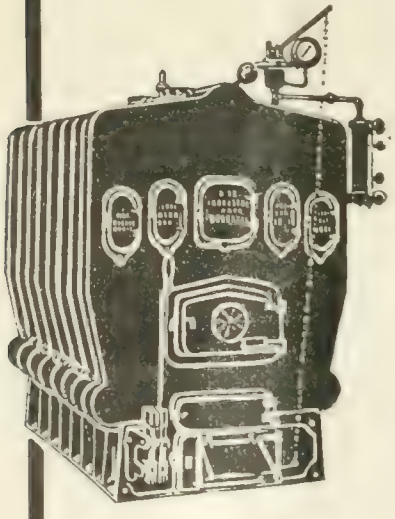
A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

The Burnham

When you can buy a genuine greenhouse boiler made from top to bottom especially for greenhouse work—then why under heaven don't you buy it? What's the use of trying to make yourself believe that a boiler originally designed for residence heating can possibly give the height of economy for greenhouse work? You know the conditions are absolutely different. The residence boilers were designed to do heating with small pipes in a vertical position where rapid circulation is an easy thing.

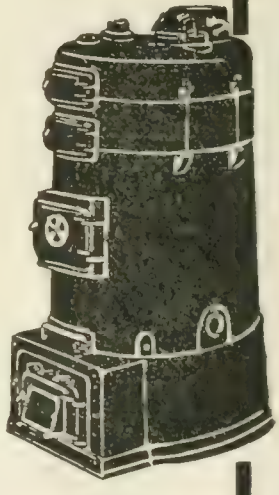
Now put such a boiler to work in a greenhouse with horizontal piping and with a large mass of water to move and you have an entirely different proposition—the residence boiler has not the power to do it economically without forcing. And forcing a boiler means not only shortening its life, but you also drive a surprising amount of heat out the chimney. Heat that costs you hard dollars.



So go careful!

Make sure you are buying a Cast Iron Sectional Greenhouse Boiler made especially for greenhouse work.

The Burnham is that kind.



Lord and Burnham Co.

SALES OFFICES

New York, Forty-Second Street Bldg.
Boston, Tremont Bldg.
Philadelphia, Franklin Bank Bldg.
Chicago, Rookery Bldg.
Rochester, Granite Bldg.
Toronto, Canada, 12 Queen Street, East

FACTORIES:—Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. JULY 26, 1913 No. 4

LIBRA
NEW Y
BOTANI
GARDE



A Busy Street in the Convention City

Nicollet Avenue, Minneapolis. One of the Few Great Retail Streets in the Country Not Traversed by a Car Line

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

THE REGAL LILY

THE FINEST OF ALL LILIES



A FIELD OF LILIUM MYRIOPHYLLUM AT FARQUHAR'S NURSERIES. PHOTOGRAPHED JULY 8, 1913.

LILIUM MYRIOPHYLLUM

BULBS $1.50 each, $15.00 per dozen

ORDERS BOOKED NOW—DELIVERY IN OCTOBER

R. & J. FARQUHAR & CO.

BOSTON, MASS.

GERANIUMS

We have a splendid lot ready, in a fine assortment of good plants in 3 in. pots, for Fall and Winter Blooming at $3.00 per 100, $25.00 per 1000. Good 2 in. stock at $2.00 per 100, $18.50 per 1000. We are booking orders for next season. Get our Catalogue and Prices.

We cover the field of useful varieties.

SMILAX, good strong 2 in. pots, $2.00 per 100, $17.50 per 1000.
ASPARAGUS SPRENGERII, 3 in. pots. $5.00 per 100, $40.00 per 1000.
ASPARAGUS PLUMOSUS NANUS, 3 in. pots, $5.00 per 100, $40 per 1000.
HEAVY ENGLISH IVY, 2 in. pots, $2.00 per hundred, 3 in. pots, $3.00 per 100.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ....

July and August Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid.
Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

LIST OF ADVERTISERS

Page
Advance Co.....127
Albany Cut Flower Ex.....120
Allen, J. K.....120
Anderson, S. A..115
Aphine Mfg. Co.111
Aschmann, G....108
Atlanta Florist Co. 118
Ayres Co., S. Bryson 113
Badgley, Reidel & Meyer.....120
Barnard, W. W. Co. 112
Barrows & Son..100
Bayersdorfer, H. & Co.....117
Bay State Nurseries 99
Bloomingdale's ..114
Bobbink & Atkins 110
Boddington, A.T.109
Bolgiano & Son, J. 113
Boston Florist Letter Co.....118
Breck, J. & Son.112
Breck - Robinson Nurseries 99
Breitmeyer's, J. Sons 114
Bryan, Alonzo J.108
Burnett Bros....112
Burpee, W. A. & Co. 113
California Florist 115
California Seed Growers' Asso.113
Page
Carbone 115
Chicago Carnation Co.....118
Childs, John Lewis 112
Clark's, D., Sons 114
Clark, Everett B. Seed Co.....113
Cooke, Geo. H...116
Cowee, W. J....120
Craig, Robt. Co.108
Dards 114
Davidge, Wm. M.111
Dawson, H. S... 99
Dorner & Sons Co. 108
Dreer, H. A..126-127
Dunlop, John H.115
Dysart, R. J....120
Eastern Nurseries 99
Edwards Folding Box Co.....118
Elliott's, W., Sons 111
Eppstein, Julius.115
Ernest, W. H...126
Esler, J. G.....126
Evans, W. & H. F. 112
Eyres 114
Fairfield Landscape & Nursery Co.....110
Farquhar, R. & J. & Co....98-113
Ford, W. P.....120
Forrest, Frank H. 115
Froment, H. E..120
Page
Fottler, Fiske, Rawson Co....113
Framingham Nurseries 110
Frost, Chas.....108
Galvin, Thos. F.115
Gasser, J. M. Co.115
Goodsell, P. H.. 99
Grey, T. J. Co..113
Gude Bros. Co..114
Hail Association.126
Hall & Robinson.115
Hammond Paint and Slug Shot Works 111
Hart, Geo. B.....118
Heacock, Jos.....108
Heinecken, Otto.113
Henderson, A....108
Hess & Swoboda.114
Hews, A. H. & Co. 126
Hilfinger Bros...126
Hitchings & Co.127
Holland Nurseries 110
Holm & Olson...114
Johnson, J. Oliver 112
Johnston Bros...115
Kasting, W. F. Co. 121
Keller, J. B. Sons 114
Kervan Co.....120
King Cons. Co...126
Kramer, F. H...115
Kroeschell Bros.126
Kuebler, W. H..120
Lager & Hurrell.108
Lange, A.....115
Page
Lemon Oil Co...111
Leonard Seed Co.112
Leuthy, A. & Co.100
Loechner & Co..110
MacMulkin, E....115
May & Co., L. L.115
McConnell, Alex.114
McCarthy, N. F. Co. 121
McCray Refrigerator Co.....117
McCullough's Sons Co., J. M.....118
McHutchison & Co. 100
McKenzie, John..108
McManus, Jas...120
Metropolitan Material Co.....127
Michell's Seed House 112
Michigan Cut Flower Ex....118
Millang, Chas....120
Miller, E. S.....112
Montreal Floral Exchange 120
Moore, Hentz & Nash 120
Morris & Snow Seed Co.....113
Mt. Desert Nurseries 107
Murray, Samuel.114
National Nurseryman 110
N. Y. Stable Manure Co.....111
Neissen, Leo Co.118
Oechslin, Frank.108
Ouwerkerk, P....110
Page
Park Floral Co..114
Palmer, W. J. & Son 114
Parshelsky Bros.127
Pelicano, Rossi & Co.....115
Penn the Florist.115
Pennock - Meehan Co. 119
Pierce Co., F. O.127
Pierson, A. N...108
Pierson, F. R. Co.100
Pierson U - Bar Co. 128
Pino-Lyptol Chemical Co...111
Plant Food Co., 20th Century..111
Poehlmann Bros. Co. 118
Pollworth, C. C.114
Pulverized Manure Co.....111
Quaker City Machine Co.....127
Reed & Keller...120
Reinberg, Peter.118
Rice, M. Co.....115
Robinson Co., H. M. 120
Roehrs, J. Co...108
Roland, Thomas.108
Rolker, A. & Sons 100-126
Rosery, The.....114
Sander & Son...108
Scott, John.....108
Schling, Max....115
Sharp, Partridge & Co. 127
Sheridan, W. F..120
Page
Siebrecht, Geo. C.120
Siggers & Siggers 126
Skidelsky, S. S. & Co.....112
Smith, P. J.....120
Smith & Co., E. D. 99
Smith, W. & T. Co. 110
Smyth, Wm. J..114
Sprague, J. H...111
Stearns, A. T. Lumber Co....127
Syracuse Pottery Co. 126
Totty, Chas. H..110
Thorburn, J. M. & Co.....113
Traendly & Schenck 120
Valentine, J. A..114
Van Assche, F...126
Vick's Jas. Sons.113
Vincent, R., Jr., & Sons Co..... 99
Wants, For Sale.125
Ward, R. M. & Co. 100
Weeber & Don...113
Welch Bros. Co..118
Whittier & Co., W. B.....110
Wilson, Robt. G.114
Wood Bros.....110
Woodrow & Marketos 120
Young & Nugent.114
Zangen, O. V....113
Zinn, J. A.....115
Zvolanek, Ant. C.113

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 122, 123, 124, 125

EXPECTATIONS

He who gets something for nothing gets nothing from something in return. There are a good many buyers of lily bulbs who expect good bulbs, but who don't pay the price for them in return. This class never average as high in returns as those buyers who pay a fair price. In any line of business a buyer must regulate his purchases by the general average of results and never by any one particular instance of profit or loss. Particularly in lily bulbs must a buyer secure only the best, as the proportion of cost of bulbs to percentage of profit is such as to make that initial cost a secondary consideration. Every lily grower of experience knows it does not pay to gamble with uncertain brands—and that there is one brand which is almost always absolutely dependable—and that brand is Horseshoe Brand—the finest lily bulbs in the World. A catalog with prices upon application.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of	100	Size	7-8	at	$ 6.00 each
"	100	"	7-9	at	8.50 "
"	340	"	7-8	at	21.00 "
"	300	"	7-9	at	21.00 "
"	250	"	8-10	at	25.00 "
"	180	"	9-11	at	22.00 "

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

LILIUM HARRISII

For Immediate Delivery

We have received our first consignment of Harrisii, and offer a selected stock of the original true Harrisii for early forcing. The stock was grown from the original true type, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. The crop this season is much shorter than usual, but we are still in position to supply a nice lot of selected stock, and can now make delivery from first shipment.

6 to 7 inch bulbs, 350 to the case, $5.50 per 100; $45.00 per 1000
7 to 9 inch bulbs, 200 to the case, $9.00 per 100; $82.50 per 1000

Full case lots at thousand rates.

HYDRANGEA OTAKSA

BLUE AND PINK.
IN BUD AND BLOOM, FOR IMMEDIATE USE.

We have a fine stock of pot-grown plants in 6-in. and 7-in. pots, in fine shape, just beginning to show color, 35c. and 50c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, $2.00 and $3.00 each; extra large specimens in half-barrels, $5.00 and $7.50 each.

FINE FERNS FOR SUMMER DECORATION

We have a fine stock of the following varieties of Nephrolepis:

ELEGANTISSIMA: 6-in. pots, 50c. each; 8-in. pots, $1.00 each.
HARRISII form of Bostoniensis—the best of all the plain-leaved type: 8-in. pots, $1.00 each; very large specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

White Killarney, Pink Killarney, Richmond, Lady Hillingdon and Killarney Queen.

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON NEW YORK

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Aspidistras

Now when most florists have lots of room in the houses, it would be a good plan to start and propagate a good batch of aspidistra, as they are bound to come in very useful. They are propagated by dividing the clumps of old plants. Break up these densely grown clumps, leaving two or three leaves with each piece. For these divided aspidistras you can use 4 or 5-inch pots. These plants soon start off and make lots of strong roots so give them a good rich compost of fibrous loam three parts, well rotted cow manure one part. When they are potted up place in a house where they can be shaded and kept rather close and they will soon start new roots. When they begin to fill their pots with roots they should be given ventilation and just enough shading to keep the leaves from scorching as a dense shade is very detrimental.

Camellias

Camellias should now be advancing well in growth. Give special care in ventilation as these plants will want all the air possible now. Go over the plants and turn them around about every ten days and as they may need it give more room between them to admit plenty of light and air. Give a good syringing mornings and right after dinner-time as it greatly helps to encourage an increased and vigorous growth. Examine the plants two or three times a day so none of them will remain in a dry state for any length of time. These plants will need a thin shade to protect them from the direct influence of the sun.

Care of Dahlias

Dahlias have become general favorites among the millions. Where large and strong plants were planted out and the soil kept thoroughly stirred every week between the plants they should now be in fine state to stand a dry spell. They should never be allowed to suffer from drought. When they begin to show buds they will be greatly benefited by a thorough watering once a week during the continuance of a drought. These artificial watering should be followed the next day by a cultivation that stirs the soil to a depth of 1½ to 2 inches. To help your plants to do their utmost in flowering, give them broadcast dressing of some fertilizer that is rich in ammonia, phosphoric acid and potash. Pure bone meal four parts, to one part of nitrate of soda, makes an excellent thing for a top-dressing.

Sowing Schizanthus

These plants are now becoming very popular subjects when well grown. Where you intend to have a nice batch for early winter flowering now is the time to make a sowing. Take pains to obtain the best strain of seed in the market. For a compost mix equal parts of new loam and leaf mold with a good sprinkling of sand. Fill pans with this compost and give a good watering some little time previous to sowing the seed. Cover the seed very lightly, finishing by pressing the surface of the soil even all over. Place under a cold frame and shade until the young seedlings begin to appear when they should have full sun. When large enough to handle prick or pot off. When they have filled their pots with roots keep on shifting until they reach a 6 or 7-inch pot. For these shifts give a good rich mixture, say two-thirds fibrous loam to one-third of well-decayed cow manure. Keep them pinched freely which will produce nice compact plants. This pinching can be kept up until October.

Winter Flowering Stocks

Seed that was sown in June will make fine stock for flowering during the winter months. They should now be doing fine in 2 or 3-inch pots. The best way to handle these plants is to keep on shifting until they are in 5-inch pots. For a compost use turfy loam three parts, to one part of well-decayed cow manure. From now and up to the middle of October there is no better place for them than a cold frame. See that they are placed on some coal ashes which always remains in a cool state. Keep them sprayed morning and afternoon and keep an eye to ascertain the condition of the soil as they should never be allowed to become too dry at the roots. It will be necessary in order to keep clear of greenfly, to fumigate at least every ten days. Late in the fall they will show their buds and you can then distinguish the singles from the doubles. The single buds are always long and pointed, while the double ones are short and stubby so you can discard the single ones as they may appear.

Watering Late Asters

To ensure a fine crop of flower on late asters, they should not be allowed to suffer during dry spells. To expand their flowers on good strong stems with good foliage they will want large quantities of water at their roots during any prolonged droughts. Before these waterings, give a good dusting of high-grade fertilizer sown between the plants. This will assist them materially in the production of fine flowers. Give them frequent cultivation which will tend to hold the moisture better.

Mr. Farrell's next notes will be on the following: Cattleyas; Care of Smilax; Mulching and Feeding Chrysanthemums; Poinsettias In Pans; Propagating Crotons; Repairing Heating Apparatus.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Roses for Flowering Outside

Our Killarneys, Radiance, etc., planted outside for flowering during the summer months are fairly off crop now. It is better thus, as that insures a nice crop for the fall, for which the plants should be prepared now. Cut off all the old blossomed-out flower stubs and trim the plants out a little wherever it may be necessary. Then hoe the plants well, making sure you get all the weeds. After that it is advisable to apply a good dressing of bonemeal, followed by a mulch of manure. If manure is not to be had, let it be a mulch of any coarse material that may be easy and cheap to get. Marsh hay is as good as anything, no doubt better as it is much cleaner, and the wind does not bother it so much. Apply as much water as the plants will take, and you will be surprised at the quantity and quality of the flowers you will receive for your trouble.

Mulching

Some of the early-planted houses, and benches that have been run over for another year, will do much better if mulched very lightly. Not so much to feed the plants, but to keep the soil in the benches cool, and thus protect the fine little rootlets that the plants are busy sending out in search of food and moisture. These new roots are very tender, and the direct heat of the sun's rays on the soil in the bench will kill a large number, especially if the soil should be allowed to become dust dry accidentally as is bound to happen even with the good care that is given the plants. We find it the best to keep the plants continually growing, especially Beauties, although we would never advise forcing them in the least, as this would make them less vigorous for the next winter, when it will be necessary to force them. It is well to remember that if the plants are checked, once, it will take a long time for them to recover. It is very likely that the plants would never fully recover.

Disbudding

A very important item that must not be overlooked at this time of the year (or any other time for that matter) is disbudding—with Beauties more so than with other varieties, for if the buds are not pinched out in time, and are allowed to grow and open on the plants, it means just so much energy absolutely wasted. To prove this to yourself, take two buds just forming, pinch one out and let the other grow and open, and fall off and then cut the stub away. You will soon see which plant will be further advanced, whether the one disbudded in time or one allowed to form a bud and bloom out. In disbudding Beauties take all the buds with two leaves, or to speak plainer take the tip of the shoot with the bud, down to a good eye. This will insure a good strong break, which otherwise would no doubt be of a weak nature. Right here is another little point not to be overlooked. Do not pinch out the bud too close to the eye that is to be the coming break. If the shoot is too close, the break will come very weak and will not amount to much. Another important part in disbudding Beauties is to be sure and remove all surplus breaks from the bottom. Four breaks to a plant are all that are needed, and all that will be necessary to insure a good stand of growth. Strong vigorous plants, planted in good soil have a habit of breaking from every eye from bottom to the top. As soon as a bud is pinched out all these breaks should be removed save two on top, selecting the two strongest and most promising ones. All this work must be done as soon as the shoots begin to show, for if they are allowed to remain even a little while, they take considerable strength from the plant, which would otherwise all run into the two shoots proper, giving them the benefit of all the energy the root can send up, which amounts to a good deal, for the roots are very busy little bodies and it is surprising what wonderful work they will do if given half a chance.

This all seems like an extra large amount of work, and many will say it is all "bosh" or "rot" or some of the terms which written articles are called by the different critics, but we have proven that it pays, as the number of special Beauties cut from one plant well cared for was over five besides all the shorter stuff, and the total cut from plants allowed to grow as they will, was little over two specials per plants. A great contrast indeed.

Distance for Beauties

Many may have shook their heads when we spoke of planting American Beauties two feet apart in the rows on the benches, the rows being eleven inches apart. And yet we found the plants so planted cut fully as many roses as those set nearer together, and if there was a difference it was in favor of plants spread out more. However the house so planted looks skimpy for a while and we think twenty inches is the proper distance for Beauties. At any rate there is absolutely nothing in crowding the plants, as the more they are crowded the less flowers will they produce, and the more difficult it will be to care for them properly. This applies especially to syringing the plants, for the closer they are together the harder it will be to keep them clean.

Good Management

It is surprising the number of places that are being run at a tremendous expense, all because of a little outlay that would be necessary to put the place into some sort of a shape so it could be handled with the least expense. Those happy-go-lucky days are over and the grower who will receive good returns on his investment will be the one that keeps pace with times and does away with all the old-fashioned narrow zigzag houses that still exist here and there. The price paid for operating these old houses for five years would almost build an equal area of up-to-date large house construction, that would bring double the interest on the investment, compared to the old tumble-down houses. There is proof enough in the fact that new men starting out for themselves with one new large greenhouse, rapidly grow to own a nice establishment, where the man who has been at it for

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Pot Vines

About the first of August is an ideal time to commence ripening up the pot vines for forcing next winter. Presuming they are at present growing in a young vinery or other suitable house, let them be transferred to an outside position where they will have the full sun and weather. This will ripen up the wood, making the buds quite firm by fall. Half-ripened cane is never so productive as one that is ripened well. It will be necessary to provide shade for these young vines for a time if they have been shaded, either by growing vines or shading on the glass, or the foliage will burn. Not only is the sun's power to be reckoned with but the air will be considerably dryer than that they have just come from, which makes a greater strain on the foliage until it has got accustomed to the new atmosphere. A double thickness of cheese cloth tied to stout poles on the south side of the vines will answer the purpose; they will then get the early morning and late afternoon sun which will be the first stage of receiving the full sun. After a few days of this reduce the thickness of cheese cloth to one, taking this up a little earlier each evening and leaving it correspondingly late in the morning before putting it on, until it can be dispensed with altogether. Keep the vines well watered all this time and also for the remainder of the season, syringing them twice daily. We find it is a big advantage to place the pots in a straight row from east to west and have strong stakes drove in the ground at intervals of twelve feet, stretching a piece of wire on to these and tying the canes to it which prevents them from being broken by the wind and rain.

Watering

Those fruit houses that have finished their crop and are now staying wide open right along will be found to dry out very quickly. See that they do not want for water. Continually syringing the trees or vines will often keep the surface soil looking half dry; this is not enough for some time yet. Any trees that may be in a draught through leaving doors, etc., open in an endeavor to keep the house as cool as possible will dry out quicker than the others in the same house. See they all get a thorough soaking when they are watered. At no time during the growth of any tree should a little water be given,—that is, when the object is watering. There are times when we have given them just enough to water in some feeding when a watering is not needed; in such a case just enough to answer the purpose is all that is needed, but a note must be made of this or it will be deceiving later on.

Damping

Damping should be done at the accustomed regular times in all houses until along in the late fall. Do not get slack on this because the crop has been cut and there seems little to bother about. Damping plays just as important a part now as it did in the earlier stages of growth. Grapes hanging ripe at this time of year will stand more moisture around them than at any other time.

Vacation

It is with pleasure that we all look forward to vacation time, with its many and varied pleasures, each individual choosing his or her own way of recuperating for the strain of another year. It is the season of "cast care aside" and forget the business, with the majority, but how often do we find gardeners making a pleasure of their business even during a vacation. Such men are so truly wrapped up in their business that it becomes a pleasure. To such men work is not a bore during the other part of the year. From a physical standpoint should we labor on through this, our time of ease? as labor it is,—although we take pleasure in laboring—or should the mind as well as body be given a rest? Some will say they know acquaintances that could not rest away from it, which is so, and makes the whole question very complicated when we discuss it technically. Let every one drink of the fountain that is most refreshing to them and so shall they receive the greatest amount of benefit.

August is one of the slackest months in the fruit department (and a good vacation month, too). After the rush of the spring, often in sweltering houses, vacations feel good and are a benefit to employer as well as employee, for a man returns to work greatly invigorated and when that time comes again in the spring when work looms up big on every side there is one bright spot in the distance—a vacation to look forward to.

Mr. Penson calls attention to a rather indefinite note in his contribution of last week. In reference to benches, where sides or bottoms may need renewing he meant to say, "it is very annoying to have to stop to repair these when the bench is emptied out during the winter and the weather is good, so that it could be filled in again without delay, if it were not for the repairs."

---

years before they ever dreamed of starting, is in practically the same place as he was, making little headway with his old poorly-built houses.

A Word to Beginners

Many holding a position at a good salary will figure that they could do better for themselves. All well and true. Capital is needed, and take our advice and do not think of buying second-hand greenhouses standing, to be taken down and rebuilt. Such houses have to be gotten almost for nothing to be worth bothering with. There are firms who make a business of buying old houses, but they are well experienced in that line, have all the necessary tools and can therefore make a good quick job of taking down the house. Once in a while a nice place can be rented. This is very seldom, for any place that can be made to pay will be in operation by the owners regardless of old age, death, sickness, and many other reasons given for selling. In the end it will pay to start with a new outfit if at all possible.

HORTICULTURE

VOL. XVIII JULY 26, 1913 NO. 4

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES.

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Busy Street in the Convention City.

NOTES ON CULTURE OF FLORISTS' STOCK—Aspidistras — Camellias — Care of the Dahlias — Sowing Schizanthus — Winter Flowering Stocks — Watering Late Asters—*John J. M. Farrell*..... 101

ROSE GROWING UNDER GLASS—Roses for Flowering Outside — Mulching — Disbudding — Distance for Beauties—Good Management—A Word to Beginners —*Arthur C. Ruzicka*.....102–103

FRUIT AND VEGETABLES UNDER GLASS — Pot Vines—Watering—Damping — Vacation — *George H. Penson* 103

OBITUARY—Patrick McGovern—Joseph M. Gleason—Julius Roehrs, portrait..... 105

DURING RECESS—Gardeners' and Florists' Club of Boston—Lancaster County Florists' Club—St. Louis Florist Club—Cincinnati Florists' Society..... 106

CLUBS AND SOCIETIES — Canadian Horticultural Association 107

Club and Society Notes.....107–121

NEWS FROM THE CONVENTION CITY—Minnesota State Horticultural Society..... 110

SEED TRADE—Crop Reports—Good Crops in South Dakota—Notes 112

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures..... 114

Flowers by Telegraph..... 115

Ice Chest Talk..... 116

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia 119

St. Louis..... 121

MISCELLANEOUS:

Hydrocyanic Gas for Mealy Bug and Black Fly—*John Ash* 105

Publications Received..... 105

News Notes..... 115

Philadelphia Notes..... 116

Incorporated 116

Chicago Notes..... 117

Catalogues Received..... 117

Minneapolis Park Board Greenhouses, Illustration... 117

Personal 121

Greenhouses Building or Contemplated..... 126

Relaxation

Our news columns at this season of the year reflect the condition of inactivity that for a brief midsummer interim pervades most of the departments of the industries which this paper aims to serve and tales of picnics and various pastimes and news of lighter vein generally are perused by many who, for the remainder of the year, have neither time nor inclination for frivolous matters. No harm is done if even the boys and girls long past maturity break loose and romp, momentarily forgetting that "years steal vigor from the limb" and ignoring the retribution of sunburned skin and sore muscles that is sure to follow their frolic, for true it is that

"Life's enchanted cup but sparkles near the brim."

A reminder and a duty

The death of the widow of William R. Smith, recorded in our issue of last week, closes the final chapter in the story of a life, the most touching side of which was known to but few. Only to those very close to him did the uncomplaining old gardener confide the burden of sorrow he carried, day and night, ever since the time nearly a quarter of a century ago, when his beloved wife had to be sent away, suffering from an incurable mental affliction. The isolation of his domestic life, the natural yearning of his sympathetic soul for companionship and his constant solicitude regarding the provisions for his wife's comfort should she survive him, make a very pathetic picture as we look back in contemplation. How, in his loneliness, he took the welfare of the Society of American Florists to his heart and for eleven years, in the face of almost insurmountable obstacles, devoted his time and means, his energy and brilliant ability, to secure for that organization the coveted national charter, we all know. No man ever more truly merited a memorial which shall record his worth and the gratitude of the profession he so conspicuously honored. We hope that the appeal of the committee entrusted with the duty of soliciting donations for the erection of a fitting memorial to this grand old man of horticulture at the National capital may meet with a generous and hearty response. Now is the time to zealously push the project to completion.

An aspersion

We have noticed quite frequently of late in some florists' window or in the illustrated contents of some paper, crude exhibits purporting to represent "the old-fashioned bouquet," "the kind they made in grandmother's days," etc. Apparently the idea intended to be conveyed by these contraptions is that a lace-paper collar with a clumsy mass of short-stemmed and mutilated flowers crowded in the centre represents the limit of floral taste on the part of the florists of that somewhat indefinite period called "grandmother's time." Those who are old enough to have known something of the conditions as they then existed are well aware that there was plenty of inartistic botchery done in those days but probably no more of it proportionately than we may see at the present time, for the incompetent we have with us always. One does not need to go far in any part of the country to get a full realization of the crimes that are daily perpetrated in the name of floral art. But neither the constructions called bouquets by the old-time botchers nor the uncouth contrivances called "designs" by the same class now-a-days can be said to fairly represent the standard of floral decorative skill in either epoch. Indeed, the old-time florist, if he was worthy of the name, often displayed exquisite dexterity in the making of the old-style formal hand bouquet, the arranging of which is almost a lost art today. We do not wish to be understood as advocating those prim methods of floral work. We simply enter our protest horticulture at the National Capital may meet with a of the best taste and skill of the men who laid the foundations of the florists' business.

Obituary

Patrick McGovern.

Patrick McGovern, a Brooklyn florist, who had been in business in the vicinity of Greenwood Cemetery for 35 years, died on Thursday, July 17, at his home, 122 Prospect Park West, in his 71st year. His wife, two sons and four daughters survive him.

Joseph M. Gleason.

J. M. Gleason, well-known in the seed trade, passed away on Sunday evening, July 20, after a very brief illness. He left his place of business in Boston on Thursday evening in apparently good health and was taken sick on Friday morning. The trouble was intestinal and on Sunday an operation was decided upon as the only possible means of saving his life and he was taken to the hospital but the effort was futile.

Mr. Gleason had been in the seed business for many years, having been with the Allan Seed Company of New York, with Everett & Gleason, of Boston, with Schlegel & Fottler Co., of Boston, for over 20 years, being treasurer of the latter company for many years, and at the time of his death was treasurer of the Thomas J. Grey Co., of Boston. He was 69 years of age. He is survived by his widow and two sons.

J. M. Gleason was a gentleman, quiet and unpretentious in manner, suave and courteous to everybody—always the same under any and all circumstances. He was highly respected in the trade, a good evidence of this fact being the closing of every seed store in Boston during the time of the funeral services, 2 to 3 o'clock Wednesday afternoon.

Julius Roehrs.

Death has again been making some awful devastation in the ranks of horticulture. In the passing away of Julius Roehrs an irreparable loss has been sustained. He was, in truth, a great man. None but a great man could have built up from small beginnings the splendid establishment and far-reaching business at Rutherford, N. J., noted all over the world for its product.

The founder of this company, who has now gone to his eternal rest after a long period of failing health, was born in Hamburg, Germany, in 1844. After serving for three years in the Botanical Gardens at Kiel, Holstein, he went to Erfurt and Dresden, where he added to his technical and practical knowledge and then in 1865 to America, where he first found employment as gardener for Mr. Lienan, Jersey City, N. J. Mr. Lienan decided to return to Germany three years later and Mr. Roehrs took over the greenhouses and began business as a florist. He also erected greenhouses at Jersey City Heights and five years later moved his entire business there, and soon became well-known in New York and elsewhere for his splendid hybrid perpetual roses, forced into bloom for the winter and spring cut flower trade. A few years thereafter he moved to Rutherford, N. J., where he acquired a large tract of land and gradually laid the foundations for the immense ranges of glass devoted to orchids, palms, stove plants, Easter plants, and other high-class florists' material. In 1877 he married a German lady, Miss Schroeder, and they had seven children, five sons and two daughters, the two eldest sons, Julius, Jr., and Edouard, being associated with him in the company incorporated a few years ago.

Mr. Roehrs has been a sufferer from that insidious disease popularly known as hardening of the arteries for some time past and went to Italy a few months ago, accompanied by his wife, in the hope of obtaining some relief, but failing rapidly and there being no possibility of recovery he was brought home and death came Sunday, July 20, the immediate cause being given as bronchitis.

One of Julius Roehrs' great services to commercial horticulture was his enterprising spirit which led him to experiment constantly on new things and new methods. He was far-seeing and optimistic but, after testing anything out and finding it lacking, he would become a conservative of conservatives.



JULIUS ROEHRS.

At his home he was cordial and hospitable, fond of congenial company, but first, last and always a keen-witted and astute business man.

A WELLESLEY HOME.

On Tuesday, July 22, the Garden Committee of the Massachusetts Horticultural Society visited, on invitation, the estate of David R. Craig at Wellesley, Mass. The visitors were delightfully entertained by their host, who conducted them all over his place which is a model rural home. Located on an eminence a splendid view of the surrounding country is obtained, well wooded hills, valleys and neatly kept fruit and vegetable gardens making an ever-attractive landscape. Mr. Craig's place is well furnished with fine woods and shrubbery plantations, flower gardens and kitchen gardens and is a typical New England garden lovers' home. So agreeable did the visitors find the atmosphere that it was well along in the evening before they started reluctantly on their return to the city.

HYDROCYANIC GAS FOR MEALY BUG AND BLACK FLY.

Editor HORTICULTURE:

Dear Sir:—I would like to ask whether any reader of HORTICULTURE has had any experience with Hydrocyanic Acid Gas in graperies, for mealy bug; whether it would be liable to injure fruit in any stage and what strength could be used? Any information on this subject will be thankfully received.

Respectfully yours,
Massachusetts. G. W. W.

Replying to G. W. W., would say with regard to use of Hydrocyanic Acid Gas in graperies for mealy bug, that for a dormant grapery I have had good success by use of the following formula, viz.: One ounce cyanide, two ounces sulphuric acid and four ounces of water for each 1000 cubic feet of space, and exactly one-half the above formula when the berries have taken their first swell. By this time the foliage is sufficiently hardened, so that no injury will result. The cyanide is especially effective when used in the early stages of forcing before buds swell, using major formula. The bugs crawl out as warmth is applied and are easily exterminated and each one killed represents a whole colony. I also find one-half ounce of cyanide, one ounce sulphuric acid and two ounces of water for each 1000 cubic feet of space very efficacious in killing black fly on violets without the slightest injury to flower or foliage.

JOHN ASH.

Pomfret Center, Conn.

PUBLICATIONS RECEIVED.

The Thirtieth Annual Report of the Board of Park Commissioners of Minneapolis, Minn., is a very ornate production. The illustrations are numerous and beautiful and these with the text matter and several fine maps and diagrams fully indicate the splendid work on behalf of the people, for their pleasure and health, which is being accomplished by this park commission aided and abetted by superintendent Theodore Wirth, who stands in the front rank in executive and horticultural ability as a park official. Minneapolis has 3710 acres net of parks, 1287 acres of water area and 34 miles of parkways. Cost of land and improvement to date, $6,915,794.

The Preliminary Plant Schedule of the International Flower Show to be held in New York City, March 21 to 28, 1914, has just been issued and copies can be had on application to John Young, Secretary, 54 West 28th street, New York, or at his temporary address, Hotel Andrews, Minneapolis, Minn. Section A, Plants in Flower; Sec. B, Palms and Foliage Plants; Sec. C, Ferns; Sec. D, Orchids; Sec. E, Bulbs in Flower; Sec. F, Roses in Pots and Tubs; these are all limited to private gardeners' competition. Sec. G, Flowering Plants; Sec. H, Bulbous Classes; Sec. I, Ferns and Selaginellas; Sec. J, Orchids; Sec. K, Palms and Foliage Plants; Sec. L, Miscellaneous Plants; Sec. M, Roses in Pots or Tubs; these are limited to the commercial growers. Sec. N, is for New Plants Not in Commerce. Over 200 classes are included in this preliminary list.

DURING RECESS

Gardeners' and Florists' Club of Boston.

The Grand Annual Picnic of the Gardeners' and Florists' Club of Boston came off as scheduled, on Wednesday, July 23, the usual happy group of ladies and children being present and the interest in the various games well maintained. President Wm. J. Kennedy made a model ringmaster and with his several associates on the various committees, judges, umpires, etc., worked hard and successfully and everything was done with a system and promptness that did great credit to all. In the absence of Peter M. Miller, attending the funeral of Mr. Gleason, W. N. Eaton of the Cunningham Gymnasium officiated as starter and in the absence of W. N. Craig, nursing a case of lumbago, J. R. Ness made an efficient clerk.

Sports and Winners.

Baseball—Commercial vs. Private Gardeners. Captains, Thomas Anderson and Henry L. Pree. Won by Private Gardeners, 9 to 7.

Baseball—Boys 16 and under. Captains, Robert Smith and Alfred Hall. Won by Captain Smith's team.

Quoit Match—Commercial vs. Private Gardeners. Captains, D. Iliffe and Kenneth Finlayson. Won by Private Gardeners, 63 to 24.

50-yard Race for Girls 13 and under—Mary Iliffe; Susie Rogers.

50-yard Race for Boys under 8—L. Sprowl; Arthur Rogers.

100-yard Race for Single Ladies—Edith Iliffe; W. Pree.

50-yard Race for Girls under 8—Mary Flood; Doris Bartsch.

50-yard Race for Boys 13 and under—Z. Hollingsworth; Thos. Roland, Jr.

Egg and Spoon Race for Married Ladies—Mrs. Fred Coles; Mrs. H. Woods.

Potato Race for Boys under 15—Thos. Lally; T. Palmer.

Flag Race for Girls under 15—M. Iliffe; E. Iliffe.

High Jump—W. J. Collins; W. Iliffe.

Fat Men's Race—J. Smith; Thos. Lally.

Baseball—Married vs. Single Ladies—Won by Single Ladies, 12 to 1.

Half-Mile Race—W. Pree; W. Iliffe.

50-yard Race for Boys and Girls under 6—Lindy Rogers; Ruth Brown.

Needle Threading Race for Ladies over 50. 35 yards—Mrs. Kenneth Finlayson.

100-yard Race for Men—W. Pree; W. Iliffe.

Sack Race for Boys under 16—Charles Craig; Wm. Westwood.

Three-Legged Race for Men—G. Palmer and T. Westwood.

Three-Legged Race for Boys under 18—Parker and White; Eisenhart and Hasselman.

Sack Race for Men—W. J. Collins; E. Holland.

Obstacle Race—Thos. Westwood; W. Westwood.

Tug-of-War—Commercial vs. Private Gardeners. Captains, James Wheeler and John L. Smith. A victory for the Private Gardeners, as usual.

Walter Mott's Reflections on the Picnic.

The game of baseball between the married and single ladies was most exciting. Billy Cahill was referee and assisted by some of the rising stars he rendered excellent service and although the game was decided in favor of the single, the married ladies opined that in the long run they would win. No one disputed this. Arthur Griffin, one of the interested spectators was overheard to remark that he would hate to return home late at night were one of the wielders of the bat his better half.

While owing to unpreventable circumstances many old time attendants were absent, it was a representative crowd that fraternized with each other. The best side of one's nature is seen and many friendships formed that are impossible otherwise particularly among the younger element.

Fred C. Green, superintendent of Parks at Providence, was heard to remark that such a gathering would be a grand thing for his fellow-craftsmen, who so seldom see each other especially since the flower market was abandoned.

The Lancaster County Florists' Club.

Tuesday July 15th was picnic day for this club and about 125 of us left Lancaster, 8 A. M., for Hershey and a day's recreation. The out of town guests were S. S. Pennock, Mr. Bailey and Max A. Fierstein of Philadelphia: Mr. and Mrs. James Brown of Coatsville and Percy Bernard of Chester Co.

Any ride through Lancaster County is interesting from both a pictorial and an agricultural point of view and always enjoyable. Purely nature lovers were regaled while going through the mountains at Penryn Park. The iron ore mines and works in the vicinity of Lebanon were a revelation to many and the ride from Lebanon to Hershey through the Lebanon Valley was not without interest.

Arriving at Hershey, 10 A. M., we were taken in charge by Mr. Haverstick who has full charge of the floral and landscape work in and around Hershey. The park surrounding the works first attracted our attention and we were then taken through the factory itself where about fourteen carloads of chocolate candies and chocolate and cocoa are shipped out every day of the week excepting Sunday. There are about twenty three acres of floor space and fourteen hundred employees at work here, but this was a side issue with us and we were then conducted to the residence about a mile distant, the whole one continuous landscape effect rivaling the best in the country.

At the residence we grouped faithfully for two pictures but sad to relate both were failures, the first no doubt through the reflection of the sun from the President's bald head and the second supposedly from trying to get S. S. Pennock's full length focused on the plate.

After a sumptuous dinner we all went to the Hershey Park and Picnic grounds where boating, swimming, dancing and all other imaginable picnic sports were the order of the day.

To properly settle their noon lunch a number of real sports indulged in a game of baseball, with Elmer Weaver of Ronks as umpire and W. B. Girvin of Leola as star batter. Stunts were pulled off that can never be seen in any of the National League games. Any ball that was within four feet of the plate was called a strike, and Girvin's home run hit was knocked thirty feet from the plate by actual measurement and dropped by each base player successively until he reached home in safety. Of course we could not blame our out-of-town players for a few errors as they were not used to Lancaster County base ball.

In the bowling best out of three games it narrowed down to our treasurer, Harry Rohrer, Elmer Weaver and the president, A. M. Herr and Mrs. A. M. Herr, the latter winning out with strikes and spares and some sixty pins to the good, Mr. Weaver felt so badly being beaten by a woman that he rolled a consolation game all by himself and made a score of 171. Dancing was at a discount, but sliding down the cellar doors was an allurement that even some of the dignified aristocrats could not resist.

The run home was made in the cool of the evening and fittingly ended a very pleasant day.

August 21st will find us seriously discussing the Aster proposition with an exhibit connected with it. Ye Aster experts note the date.

ALBERT M. HERR.

St. Louis Florist Club.

This long looked for event took place on Thursday, July 17th, at Romona Park. It was the largest crowd that ever attended a picnic given by the St. Louis Florist Club. Two much credit cannot be given the club's trustees. A splendid band of music was on hand mostly for the benefit of the younger folks, who spent most of the day in the dance hall. At 3 o'clock the crowd was estimated at 400 and the committee on games started their work at the upper end of the park—and the following persons connected with the trade in some way won the different events:—

K. Ogle and Joe Hauser won 1st and 2nd in 50-yard race. Henry Emunds and W. Ogle won the time-walking match. Misses Potter and Rienecke won the young ladies' race of 30 yards. The little girls' race, 15 years and under, was won by Miss H. Emunds, and T. Nighwander, G. Cerny and J. Roehn won the boys' race, 16 years and under. K. Ogle won the shot-putting contest, throwing the shot 36 feet. Mrs. Patton 1st in the ladies' ball-throwing contest; Miss Spiegel 2nd. Oliver Sanders and Al. Gumz 1st and 2nd in the hop, step and jump contest. The ladies' tug-of-war, fifteen on a side, was one of the features on the programme. Mrs. Faber's team beat Mrs. C. Beyer's team after a hard pull. The finding of the shoe, for small boys, was amusing. A. Flanagan won 1st and Cluet Faber 2nd. Geo. Walbart's novelty race, for ladies, brought out a field of 45, the winners being Miss Wacher and Mrs. F. Fillmore, Jr. Girls' novelty race was won by Paula Emunds with Miss Kuhleman 2nd. Ladies' egg and spoon race, Mrs. W. J. Pilcher 1st and Mrs. O. Kuehn 2nd. The men's tug-of-war brought out great excitement, and when Jules Bourdet's French team bucked Geo. B. Windler's German team the Germans won after a 10-minutes' hard pull. The St. Louis Seed Co., the Schisler Grain Co. and the Schisler-Cornell Seed Co. held a guessing contest with jars of beans. The winners in this were Mrs. J. Hauser, Miss Engel, W. J. Meyer, J. H. Baracher, Ella Lippert, L. Meuser and A. Cerny.

After a good dinner the older folks gave way to the younger ones, who stayed until late hours, when all went home and will long remember the day.

Cincinnati Florists' Society.

At the picnic last Thursday, the following were the winners in bowling: 1st, Ben George, Jr.; 2nd, J. Van Welke; 3rd, A. C. Heckman, Jr.

The team captained by A. C. Heckman, Jr., and composed of A. C. Heckman, Jr., Chas. Windram, Roy Murphy, Alex. Ostendarp, Ed. Murphy, Roy Harkman, R. Jennings, Chas. Garvey and Linfoot, won 10 to 3.

EREMURUS

Our collection of these superb, hardy herbaceous perennials was **Awarded the Gold Medal** of the Massachusetts Horticultural Society, June, 1913. Extra strong flowering plants $1.50 each; strong roots 75 cents each.

Liberal Discounts to the Trade

MT. DESERT NURSERIES

Bar Harbor, Me.

CLUBS AND SOCIETIES

CANADIAN HORTICULTURAL ASSOCIATION.

Preparations are all complete for the convention at Peterboro, Ont., on August 5, 6 and 7. It is anticipated that this is going to be the largest and best convention that the association has ever held. The trade exhibit will be a special feature, much space having already been reserved by leading firms. The trade exhibit is to be shown in the Drill Hall in Peterboro, one of the largest buildings of the kind in Canada. The programme is as follows:

Tuesday, Aug. 5, 2.30 P. M.—All sessions in Drill Hall, opposite Central Park.

Address of Welcome, His Worship Mayor W. H. Bradburn; Reply by E. I. Mepsted.

President's Address, Walter Muston, Davisville, Ont.

Secretary - Treasurer's Report, Julius Luck, Montreal, Que.

Report of Tariff Committee, John Connon, Hamilton, chairman.

Address by Park Commissioner C. E. Chambers, Toronto, on "Parks and Boulevards."

Appointment of Judges for Trade Exhibit; Question Box.

Second Session—Tuesday, Aug. 5, 8 P. M.

Paper, "Retail Store Management," by Cecil Hopton, Montreal, Que.

Paper, "Greenhouse Construction," by R. W. King, President King Construction Co., Toronto, Ont.

Lecture, "Greenhouse Construction," by W. R. Cobb, of the Lord & Burnham Co., New York, N. Y. Accompanied by stereopticon views. Discussion led by G. A. Robinson, Montreal, Que.

Report of Committee on Parcel Post, H R. Cowan, Peterboro, Ont., chairman.

Third Session—Wednesday, Aug. 6, 9.30 A. M

Announcements; Discussion of President's Address; Report of Judges on Trade Exhibit; Report of Nomenclature Committee, Wm. Hunt, Guelph, chairman. Paper, "Christmas Plants," by Chas. Craig, Ottawa, Ont.

Paper, "What Ten Perennials Have Proved the Most Useful for the Hardy Border?" by Geo. Trussell, Montreal, Que.

Selection of Place for Next Meeting; Special Feature, Peterboro Chimes.

Wednesday Afternoon—12.20 Noon. Leave by G. T. R. for Lakefield and embark for a tour of the Kawartha Lakes.

Wednesday Evening—Banquet at South Beach, on Clear Lake; Special Features, Something Novel, Something New.

Thursday Morning, Aug. 7, 9.30 A. M.—Announcements; Unfinished Business; Election of Officers; Final Resolutions; Paper, "What New Plants Have Proved Most Useful for Conservatory Purposes?" by T. McHugh, Dorval, Que; Special Feature, Demonstration by Peterboro Fire Brigade.

Thursday Afternoon, 2.30 P. M.—Automobile Tour of City, visiting principal industries, winding up at Nicholls Oval for Water Sports. Bring your bathing suits and life preservers.

Thursday Evening, 8 P. M.—Moonlight Excursion over Peterboro's Famous Lift Lock and down the Otonabee River. Music.

CLUB AND SOCIETY NOTES.

The annual outing and clambake of the Albany Florists' Club will be held August 16th at Henkes' Bros.' Grove, near Newtonville.

At the annual meeting of the Cincinnati Florists' Society the following officers were elected: President, Jas. Allen; vice-president, Ed. Schumann; treasurer, C. Hoffmeister; secretary, Alex. Ostendarp; trustee, Gus. Adrian.

President Siebrecht has appointed the following nominating committee to name candidates for the different offices for the N. Y. Florists' Club for 1914: Walter F. Sheridan, John Donaldson, Joseph A. Manda, A. L. Miller, Charles Schenck, Charles Weber, Joseph Fenrich.

The monthly meeting of the Nassau County Horticultural Society was held at Pembroke Hall, Glen Cove, N. Y., on Wednesday, July 9th. Special prizes for the fall show were offered by Stumpp & Walker Co., and Julius Roehrs Co. H. Boettcher, gardener to W. V. Hester, Glen Cove, exhibited some very fine sweet peas, carrying off the prizes for white, red and pink, also a certificate of culture for a collection of eight varieties. It was decided to hold the Dahlia Show at Glen Cove on Oct. 8th. All classes will be open and several good special prizes are offered for dahlias, vegetables and out-door flowers. Anyone interested can have a schedule by applying to the secretary.

The president spoke feelingly on the death of Thos. Harrison, who was the first president of this Society and appointed a committee to draw resolutions of condolence. Prizes will be offered at the next meeting, August 13th, for two cucumbers, 12 asters and 12 gladioli.

J. MacDonald,
Cor. Sec'y.

The KENILWORTH Giant Pansy



Pansies in Separate Colors.

seeds are all grown by myself and are offered in the following mixtures and separate colors:

KENILWORTH STRAIN—The flowers are of perfect form and substance; many of the immense flowers are from 3½ to 4 inches; it is a striking collection of beautiful colors and markings, rich with shades of red, brown, bronze, mahogany and many others too numerous to mention.

KENILWORTH SHOW—An extra fine strain of large flowers; the immense flowers are of circular form and great substance; a beautiful collection of colors and markings.

KENILWORTH CUT FLOWER MIXTURE—Is a distinct class by itself, surpassing all other strains as a cut flower or for exhibition purposes, for inside or outside growing; the large flowers are carried erect above the foliage on heavy stems, 7 or 8 inches long, in the most graceful manner, and stand the hot, dry weather well.

MASTERPIECE—A remarkable type; the curled, wavy petals giving the flower a double appearance, its large flowers of great substance, on long, strong stems.

ORCHID FLOWERED, Mixed—A dwarf free bloomer with a range of delicate colors that do not exist in any other pansies, a remarkable combination of light rose, shell pink, blush mauve, fawn, light brown, orange and chamois.

NEW SEED NOW READY.

1000 seeds, 25c; 5000, $1.00; ¼-oz., $1.25; 1 oz., $5.00.

	1000 Seeds
Giant Adonis, light blue with yellowish white face, large dark bloch	$0.25
Giant Emperor William, ultramarine blue with purple violet eye	.25
Giant King of the Blacks, coal black	.25
Giant Lord Beaconsfield, violet upper petals shading to white	.25
Giant Yellow, pure golden yellow	.25
Giant Yellow, with dark bloch	.25
Giant White, satiny white	.25
Giant White, with large violet center	.25
Giant Red, a fine mixture of red shades	.25
Giant, royal purple, fine large flower	$0.25
Giant, bronze and copper mixture	.25
Giant, light blue, sky blue	.25
Giant, dark blue, deep blue shades	.25
Giant Zebra, mixed shades, striped	.25
Giant McKinley, yellow, each petal bloched with a deep reddish brown	.25
Giant Psyche, ruffled violet white margin	.25
Giant Mad. Perret, red and wine shades	.25
The preceding 17 sorts mixed in equal proportions	.25

Any 5 pks., $1.00; any 11 pks., $2.00.

Rainbow is a mixture of the most beautiful, gorgeous colors; blotched, striped, veined, margined, etc. With every $1.00 worth of pansy seed I will send 1000 of Rainbow free and with other amounts in like proportion.

Chas. Frost
Kenilworth, N. J.

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

CHRISTMAS PEPPERS

New Cluster Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼-in. pots $3.00 per 100; $25.00 per 1000.

PRIMROSES OBCONICA AND CHINESE. The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

FRANK OECHSLIN, 4911 Quincy Street, Chicago, Ill.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England

and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianæ, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciosissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL, Summit, N. J.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..**BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD.** An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..**BODDINGTON'S CHRISTMAS PINK.** This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..**BODDINGTON'S CHRISTMAS WHITE.** A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..**ANGELINO.** Self pink; new variety	.50	1.50	2.75	4.50
..**CANARY.** Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..**FLAMINGO.** Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..**CHRISTMAS METEOR.** Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..**CHRISTMAS STELLA MORSE.** Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..**FLORENCE DENZER.** Pure white	.25	.75	1.25	2.00
..**LE MARQUIS.** This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..**MISS HELEN M. GOULD.** White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..**MISS JOSEY REILLY.** Lilac very large flowers	.25	.75	1.25	2.00
..**MRS. A. FARENWALD.** Extremely large; dark pink. Very early	$0.75			
.**MRS. E. WILD.** Carmine or dark pink	.25	.75	1.25	2.00
..**MRS. ALEX. WALLACE.** Lavender; very scarce	.25	.75	1.25	2.00
..**MRS. HANNAN.** Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..**MRS. JAMES WHEELER.** Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..**MRS. WM. SIM.** Salmon pink	.25	.75	1.25	2.00
..**MRS. GEO. LEWIS.** Large, pure white, wavy flower	.25	.75	1.25	2.00
..**MRS. W. W. SMALLEY.** Satiny pink	.25	.75	1.25	2.00
..**MRS. F. J. DOLANSKY.** Daylight pink	.25	.75	1.25	2.00
..**MRS. CHAS. H. TOTTY.** Sky blue; late	.25	.75	1.25	2.00
..**MRS. ZVOLANEK.** Blue, variegated; good for variety	.50	1.50	2.75	5.00
..**ORANGE BIRD.** Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..**PINK BEAUTY.** Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..**WALLACEA.** Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..**WATCHUNG.** Pure white	.25	.75	1.25	2.00
..**WINTER CHEER.** Wavy, large white flower	.50	1.50	2.75	4.50
..**WM. J. STEWART.** Blue self	.35	1.00	1.75	3.00
..**ZVOLANEK'S PINK.** Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

NEWS FROM THE CONVENTION CITY.

Minnesota State Horticultural Society.

Forty-seven years ago at the state fair held at Rochester Minn, a dozen enthusiastic horticulturists got together and organized the Minnesota State Horticultural Society. This organization has held annual and most of the years semi-annual meetings ever since and has steadily increased in members and influence until the past few years the membership has been approximately 3000. Of this number about 300 are life members, the rest paying an annual fee of $1.00 each. Like most of the state horticultural societies of the country, and especially those of the northern states, the society is supported by the state to such extent as is necessary in addition to the amount received from membership dues.

Of the twelve members who organized the society the last one, Mr. Wyman Elliot, passed away a few weeks ago. There is a very limited number of the older members who joined the society a year or two after its organization still living, and one of these is A. W. Latham, secretary of the society who is holding the office now for the twenty-third year.

The society publishes besides its annual report a monthly magazine of forty pages, which medium of communication within the membership is found to be very helpful and strengthening to the organization. In this northwest country, with its peculiar climate and soil conditions there are many new problems to work out in horticulture, and especially in fruit growing, and the urgent necessity of their solution have something to do no doubt with the strength and vigor of this organization.

Acting under the advice of the State Horticultural Society the state a few years ago purchased a tract of land suitable for the purpose and has now in operation for some time in conjunction with the society a farm for the sole purpose of breeding new fruits adapted to local conditions. Many of these new fruits are now being distributed, and they are going largely to the members of the State Horticultural Society for testing. This fact is adding much to the general interest in the work of the society. While it is strictly a state organization yet it has been found advisable to accept memberships from adjacent states as a fraternal bond is found to be very helpful in prosecuting a work common to a much larger area than contained in the State of Minnesota.

The society has a fine library and well furnished suite of three offices in the Kasota building in the city of Minneapolis. The various bulletins on horticulture issued by the state experiment stations of the country and the government stations are to be found here readily accessible through the medium of card indexes. These offices are not confined to members of the society alone but are open to the public also, and are quite generally used as the means of securing horticultural information as regards any part of the country.

B. & A. SPECIALTIES
Our World's Choicest Nursery and Greenhouse Products for Florists
PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS. EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES
Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.
BOBBINK & ATKINS
Nurserymen and Florists — Rutherford, N. J.

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK
W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

ROSES
GRAFTED and OWN ROOTS
Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.
Fine Stock from 3 inch pots. Write for Catalogue and Prices.
Wood Brothers
FISHKILL, N. Y.

ROSE STOCK!
"Mrs. Geo. Shawyer"
Grafted or Own Root
$30 per 100; $250 per 1000
500 Bon Silene—4 in. $8.00 per hundred
500 Richmond—4 in. $8.00 per hundred
500 Radiance—3 in. $8.00 per hundred
CHAS. H. TOTTY
MADISON, N. J.

THE
National Nurseryman
Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.
National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.
ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

HOLLAND NURSERIES
Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.
P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Nursery Stock
Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

When writing to Advertisers kindly mention Horticulture

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

Horse Stable Manure

NATURALLY ROTTED **DRIED AND GROUND**

HIGH GRADE, IMMEDIATE, NUTRITIOUS and LASTING. CONVENIENT and COMPACT

An odorless natural Manure for use of Florists, Landscape Gardeners, Truck Growers and Farmers, and for general Farming purposes.

For mixing with soil for Potted Plants; for Field Crops; for Grass and Lawns, and for Vegetable Gardens, promoting rapid, steady growth.

PUT UP IN BAGS, 100 LBS. EACH

Descriptive Folder and Prices upon application.

—SOLD BY—

NEW YORK STABLE MANURE CO.

273 Washington Street, JERSEY CITY, N. J.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 &29 OCEAN ST., ∴ BEVERLY, MASS.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

PHOSPHORUS

A seven-inch potfull of **Davidge's Special Phosphorus** mixed with a wheelbarrow of soil when planting or potting; then, when roots are established, a small pailful scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag (200 lbs.) $5.50. Over 500 lbs., at the rate of $40.00 per ton.

WILLIAM M. DAVIDGE,
P. O. Box 5. - - Brooklyn, N. Y.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

TOBACCO DUST

Good old black kind does the work

100 lbs. $2.00

Wm. Elliott & Sons
42 Vesey St., New York

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon KIL-WORM makes 50 gallons liquid when mixed with water.

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL-WEED diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to
B. HAMMOND, - Fishkill-on-Hudson, New York.

SEED TRADE

Crop Reports.

A report of crop conditions and prospects for 1913 harvest has been received from L. Daehnfeldt, Odense, Denmark, under date of June 24, 1913. In general, it appears from this report that the mild winter was favorable to most varieties, but a severe drought in the spring, accompanied by attacks of insects, did more or less damage. June was well supplied with rain, but much is still dependent on the weather conditions of the remaining summer months.

Beets show a low germination and will be a short crop. Early varieties of cabbage are also short, but the later varieties are somewhat better, although also below average. All carrots are in good order and promise a satisfactory supply. Cauliflower is a fair crop, but with germination below normal. Mangels are slightly below average. The later sorts of peas are also below average but of the early varieties there is a full crop. Radishes were weakened by the wet weather, and will be a light crop. Spinach makes an excellent showing. Of turnips there are short crops of all varieties, particularly of rutabagas, which will be high in price.

Good Crops in South Dakota.

Sweet and field corn, cucumbers and other vine seeds, are grown quite extensively on contract for seed purposes in South Dakota. A report just received states:

"This particular section (Yankton) has been favored with plenty of rain and sunshine, and all crops are looking good. Record of rainfall at this point: April 2.80, May 2.90, June 4.27, July, up to 17th, 1.52, equals for 3½ months 12.49 inches. Early sweet and field corn in tassel. Will probably have a surplus after filling contracts."

Notes.

Bloomington, Ill.—Funk Bros.' Seed Company have purchased land in St. Charles Parish, which they will use as a seed farm.

Burnett Bros., 72 Cortlandt St., New York, have leased the premises 98 Chambers St., consisting of five stories, basement and sub-basement. They will occupy the entire building, which will be ready for their occupancy september 1, 1913.

Lilium candidum in southern France is reported to be a practical failure. Those who want candidum bulbs will have to depend on the northern grown stock which, however, is not wholly a misfortune as this is much preferable to that grown in the south of France.

Chicago, Ill.—A. Henderson Co. have advices that the Dutch bulbs, especially hyacinths and narcissi, will not be up to usual standard of excellence. Orders will be filled complete as it is a question of quality rather than quantity. French bulbs, paper whites, freesias and Roman hyacinths, are now afloat and Lilium Harrissi are on their way from Bermuda.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

TRIUMPH OF THE GIANTS MIXED

Robust grower; flowers of extra large size; many beautiful, rich and rare shades. Half trade pkt., 60c.; trade pkt., $1.00; $1.75 per ¼ oz.; per oz., $6.00.

	Tr. pkt.	Oz.
Bugnot, Odier and Cassier	$0.50	$4.00
Giant Trimardeau. Mixed	.30	1.25
Mad. Perret	.50	2.50
Masterpiece	.50	4.00
Odier or Blotched	.50	3.00
Parisian Large Stained	.40	2.00
Finest English Mixed	.25	1.00

GIANT PRIZE PANSIES

In Separate Colors

Please do not compare these with the ordinary Giant Trimardeau; the seed we offer will produce flowers of much heavier texture.

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

Also all other Seasonable Seeds and Supplies for the Florist. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market Street Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Removal Notice

On and after September 1, 1913 our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.

CELERY PLANTS

Very large plants Winter Queen at $2.00 per 1000.

W. & H. F. EVANS

Rowlandville, Philadelphia

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

When writing to advertisers kindly mention HORTICULTURE.

STRAWBERRIES

FARQUHAR'S POT-GROWN PLANTS

NOW READY!

FULL CROP NEXT SUMMER IF PLANTED EARLY

Write for our Mid-summer Catalogue of Varieties for July and August Planting

R. & J. Farquhar & Co.

6 & 7 South Market St.

Boston, Mass.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

VICK'S GIANT SUPERB PANSY SEED

½ oz.	¼ oz.	oz.
75c.	$1.35	$5.00

All Leading Named Varieties Pansies. All Varieties of Flower Seeds for Mid-Summer Sowing. Choice Strains.

Write for Special Prices.

Rex Begonias..... $3.00 per C.
Asparagus Sprengeri..... 2.50 per C.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO.

COLD STORAGE

LILIUM GIGANTEUM

and

LILY OF THE VALLEY

From our own Cold Storage Plant

BOSTON

FANEUIL HALL SQUARE

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

FREESIA BULBS

(Refracta Alba)

No. 1, ½ inch and up, $5.50 per 1000
No. 2, ⅜ inch and up, $3.50 per 1000

Net, F. O. B. Los Angeles, July delivery

ASPARAGUS PLUMOSUS seed $2.00 per 1000 post paid

MORRIS & SNOW SEED CO.

425 South Main Street, Los Angeles, Cal.

When writing to advertisers kindly mention HORTICULTURE.

PANSIES

AN exceptionally large stock of the very finest nature, enables us to quote low prices on: Masterpiece, Madame Perret, and all the leading varieties of Giant Trimardeau.

Write for Prices.

FREESIA

	100	1000
Refracta alba:		
⅝ to ½ in. diameter	$0.75	$5.00
½ to ⅝ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
Purity, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

Have you our Florists' Catalog? Ask for it when ordering.

J. M. Thorburn & Co.

"The Most Reliable Seeds"

33 Barclay St., NEW YORK

T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Washington, D. C.—W. F. Gutchall has opened a flower store at Seventh and P streets, N. W.

New York—Russin & Hanfling, dealers in florists' supplies, will remove to 134 West 28th St., on September 1.

Aurora, Ill.—The Aurora Greenhouse Co. will move shortly to a new location on account of the track elevations near them.

STEAMER DEPARTURES

Allan

Scotian, Montreal-London....July 27
Victorian, Montreal-Liv'pool..July 29
Corinthian, Montreal-London..Aug. 3
Corsican, Montreal-Liverpool.Aug. 5

American

St. Louis, N. Y.-S'hampton...Aug. 1
Philadelphia, N.Y.-S'hampton.Aug. 8

Atlantic Transport

Minnetonka, N. Y.-London....Aug. 2
Minneapolis, N. Y.-London....Aug. 9

Cunard

Saxonia, N.Y.-Mediterranean.July 29
Carmania, N. Y.-Liverpool....Aug. 2
Andania, N. Y.-London.....Aug. 2
Franconia, Boston-Liverpool..Aug. 5
Campania, N. Y.-Liverpool....Aug. 6

French Line

La Savoie, N. Y.-Havre.....July 31
Chicago, N. Y.-Havre.....Aug. 2
La Lorraine, N. Y.-Havre.....Aug. 7

Hamburg-American

Cincinnati, Boston-Hamburg.July 29
Pennsylvania, N. Y.-H'burg..July 31
K. Aug. Vic., N. Y.-Hamburg.Aug. 2

Holland-America

Ryndam, N. Y.-Rotterdam...July 29

Leyland

Canadian, Boston-Liverpool...Aug. 9

North German Lloyd

Kronp'z Wilh'm, N.Y.-B'men.July 29
Barbarossa, N. Y.-..Bremen.July 31
Kronp'n Cecilie, N. Y.-B'men.Aug. 5
Berlin, N. Y.-Bremen.....Aug. 7

Red Star

Kroonland, N. Y.-Antwerp....Aug. 2
Zeeland, N. Y.-Antwerp.....Aug. 9

White Star

Arabic, Boston-Liverpool.....July 29
Cedric, N. Y.-Liverpool.....July 31
Laurentic, Montreal-Liv'pool..Aug. 2
Olympic, N. Y.-Southampton..Aug. 2
Baltic, N. Y.-Liverpool.....Aug. 7

Springfield, Mass.—Mark Aitken, the florist, who for seven years has conducted the store at 378 Main street, has taken the lease of the vacant store at 484 Main street, which he will occupy after alterations that are now in progress have been completed.

July 22, 1913.

Many thanks for the great advancement of HORTICULTURE the past four years. May you always have good success. I shall always recommend it to my friends.

Respectfully,
ONE OF THE CRAFT.
Vermont.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST. N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Detroit, Mich.—A. Pochelon, Secretary Florists' Telegraph Delivery Association.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Alfred T. Bunyard, 413 Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

NEWS NOTES.

Seattle, Wash.—Sidney Tomlin has leased the Gash place at Greenlake, where he will grow carnations.

Coshocton, Ohio—John M. Wells has purchased the Maple Bend Greenhouses and will commence business at once.

Concordia, Kan.—C. J. Lampe has leased his greenhouses to Harry L. Hunt, formerly with the Davidson Floral Co., Holdredge, Neb.

Pittsburgh, Pa.—The Colonial Floral Company has leased the greenhouses at 5424 Center avenue, occupied two years ago by H. L. Blind & Co.

San Bernardino, Cal.—Fire in the greenhouses of Mrs. A. L. Hurt, on the night of July 9, destroyed one building and damaged three others, the fern house and contents being a total loss. It was supposed that the fire started from a gasoline engine set between three of the houses. The loss is estimated at $1,000, fully covered by insurance. The greenhouse destroyed will be rebuilt.

WRITE
RICE
For the Right Kind of
Florists' Supplies
RIBBONS & CHIFFONS
OUR "WILLING HELPER" KATALOG TELLS ABOUT THEM.
M. RICE CO.
1220 Race St., Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

ICE CHEST TALK.

To sell goods you must show them, and there are two ways of doing this—the right and the wrong way. When you receive a lot of new plants or some article you consider worth showing, you take special pains to give them an advantageous spot in the show window, but cut flowers that are kept in the ice chest are frequently neglected in this respect. Study the stock each morning and get an original arrangement for each day. A vase of cut flowers should look inviting and give the onlooker a fair idea of what they would look like were they standing on the dining room table or mantel.

Don't crowd the chest so full that it looks like a wholesalers' box. To spread out and show the stock properly use glass or even a cheap vase of pottery will answer very nicely, providing it holds two dozen roses, carnations or lilies, etc., as this number will usually show up better than one dozen or four dozen.

A loosely arranged chest where colors are kept togther, or colors are brought in harmony, will tempt anybody to select flowers to take home or send elsewhere, but a lot of flowers thrown into jars in fifties and carelessly placed, will hardly appeal to anyone.

Stands are always an important factor where height is required. To have a few dozen of these on hand is very convenient. Get a few strips of lumber, 3x4, planed on all sides and cut up in various lengths from fifteen to thirty inches long. Next get some pieces of cypress eight inches square and one inch thick, planed on both sides, and nail to top and bottom of the strips, making one end the bottom and one the table to set the vases on. Two coats of white or any other colors as preferred will finish the job at very little expense.

MR. STOREMAN.

PHILADELPHIA NOTES.

Miss Robinson of Dreer's who has been on the sick list for a week goes to Atlantic City for a rest on the 26th inst.

William F. Dreer has been recuperating at North East Harbor, Me., for the past two months. Latest reports announce a good improvement.

The sad news of the death of Julius Roehrs reached this city today (21st) and the expressions of sorrow are universal. He was a man among men and was liked and respected by everyone in this community who knew him—and their name is legion.

The Leo Niessen Co., wish us to state that our market report on the sweet pea crop last week was incorrect. We said that sweet peas were on their last legs. We still think so; but make our courteous bow to superior wisdom.

A visit to Norwood, Pa., finds the Craig place in perfect order and everything flourishing. Talk about color on crotons! Wonderful! But if they can't be grown there in that pure air and fine location by past masters in the art, they can't be grown anywhere. Cocos Weddeliana are magnificent.



Charles E. Meehan is moving this week from Germantown to his new house at Ocean City. This resort seems a favorite of the fraternity. George Burton is there at present; also Chas. Henry Fox, Alfred M. Campbell, E. J. Fancourt, J. Liddon Pennock, and others too numerous to mention.

George H. Cooke and William F. Gude of Washington, D. C., were the guests of Commodore Westcott at the Waretown villa on the 19th and 20th. Robert Craig and others helped to enliven the party. Passing through Philadelphia a visit to Norwood was in order—in which Samuel S. Pennock ably assisted.

Celery plants are a scarce commodity in the market at present in consequence of the dry weather. One dealer said, "why don't we grow more? Simply because last year we had two hundred thousand to throw away. We always have plenty when other people have plenty; and when other people haven't any we haven't any either."

Paul Huebner, landscape superintendent for the Reading system, has moved his evergreens from the old triangle in Philadelphia to Trenton Junction to escape the deadly oil deposits from the Midville steel works. In a few years from now the old location will likely be abandoned. Mr. Huebner's next headquarters will probably be at Ryers in the Cheltenham district. But, of course, nothing finally settled as yet.

You seem to have had quite a good Sweet Pea Convention and exhibition in Boston in spite of the season. Professor Beal's report is worthy of careful study and everyone should read this. Also George W. Kerr's carefully considered synopsis of the situation as it is up to the present minute. We hear much favorable comment in this locality on both these outgivings. Splendid work; and HORTICULTURE strikes a good keynote in advocating examining committees similar to those of the Chrysanthemum Society and others. Let the novelties run the gauntlet of public opinion before being disseminated. This would keep out a lot of "no-betters" and hold our swollen list within reasonable bounds.

We hear that Harry Bunyard is looking for a successor, but has failed so far to find anyone as good as himself for the secretary job—and so had to accept it for another year. Modest Harry! We suggest to him that he put a salary on the job, and he'd soon find them, a whole army, better than he—absolutely prepared to beat all records on any proposition. And, by jinks, they'd prove it too, to 75 out of 100 of our ordinary go as you please, non-thinkers. There is rich humor in Harry's offhand remark, and not the faintest suggestion of shirk in doing fine work and laborious work for nothing. And that's what differentiates him from the army which would loom up if there were a salary attached. Which brings me to what I wanted to say—three cheers for any glorious worker, who has worked and is working and will always work, not for his own emolument alone, but for the cause—the advancement of horticulture.

Visitors: George H. Cooke; William F. Gude, Washington, D. C.; Vic. Hawkins, Bridgeport, Conn.; Edwin A. Seidewitz, Baltimore, Md.

INCORPORATED.

Connersville, Ind.—Carnation Support Co., capital stock, $2,000.

Clarksburg, W. Va.—G. W. Southern & Sons, capital stock $6,000; incorporators, G. W., E. C., B. T., B. A., C. R., and Melville Southern.

Toledo, O.—The property of the defunct Perennial Gardens Co., is now offered for sale by the receiver for the corporation.

Boston, Mass.—Carter's Tested Seeds, Inc., capital stock, $100,000. Incorporators, C. C. Patterson, John Wylde, G. Herbert Windeler and Reginald E. F. Beale.

Stevens Gladiolus Company, Saginaw, Mich. Capital stock $20,000. The incorporators are Frederick H. Havens, Emily J. Hall, Margaret C. Ladensack, Wm. E. Winship, Frederick H. Stevens, Jr. and Henry H. Stevens.

THE NEW SEASON GOODS

Are beginning to arrive. Now, while you have a little let-up, is the time to look them over. We can send you some bewitching samples if you just speak up. There is money this hot weather especially in the use of Artificial Flowers as Decorative Accessories to Fresh Material. We have Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO., The Florists' Supply House of America 1129 Arch St., Philadelphia, Pa.



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. 553 Lake St., Kendallville, Ind. New York Office, 231 West 42nd St.

CHICAGO NOTES.

Wm. J. Smyth and family are at their summer home in Antioch, Ill.

Herbert Stone, head of the design department of A. Lange's, is having a trip to Michigan.

A. T. Pyfer and H. Philpott left July 21st for a lake trip to Mackinaw Island.

A. Miller and Guy Reyburn, of the A. Henderson Co. left for mid-summer trips, July 20th, the former going north and the latter west.

Fred Lautenschlager says that the July business done by the Kroeschel Bros. this year far exceeds that of any other July in the history of the firm.

Visitors: Frank Schaefer, Aurora, Ill.; Mr. Miller, of Austin Floral Co., Austin, Tex.; G. H. Thomas, Traer, Iowa; Mr. and Mrs. Chas. Balluf, Indianapolis, Ind.

Mr. and Mrs. Tim Matchen will spend the first half of August in the South, visiting all the principal cities. Mr. Matchen is store manager for Peter Reinberg.

At Poehlmann Bros.' supply department their large catalogue is well under way and they hope to complete it by August 1st. This firm will have a space in the exhibition hall at Minneapolis, Minn.

The Farmers' and Florists' Tankage Fertilizer Co. have secured the services of T. T. Clark on their city salesforce. Mr. Clark was receiver for E. H. Hunt and formerly that firm's bookkeeper and the fertilizer people have secured a good as well as a popular man to represent them.

CATALOGUES RECEIVED.

J. A. McDowell, Mexico City, Mex.—Special offer on Cacti, Orchids and Bulbs.

Burnett Brothers, New York City. Fall Bulbs for 1913. A very neat and attractive catalogue, well illustrated and offering a carefully selected list.

Charles Frost, Kenilworth, N. J.—The "Kenilworth Strain" of Giant Pansy Seed. A list of really and thoroughly reliable high-grade pansy seed. The Kenilworth strain is a well-established favorite.

W. A. Manda, South Orange, N. J.—"Novelties and Specialties." An illustrated list of novelties and plants of special merit—hardy and tender. Many beautiful full-page plates. Accompanying this is an illustrated pamphlet on The Ornamentation of Grounds.

We have received with appreciative pleasure W. Atlee Burpee & Co.'s Advance Announcement of new sweet peas for 1914, a copy of which has been sent under date of July 8 to the leading "catalogue houses" in this country and abroad. It lists and describes four new Spencers, viz., Illuminator, orange-scarlet, King White, Empress Eugenie, lavender and gray, Wedgewood, blue. Illustrations from photographs are given of each.



Minneapolis Park Board Greenhouses.

Field Grown Carnation Plants
10,000 Alma Ward

At a special price, ready for early delivery, $7.00 per 100, $65.00 per 1000.

Rose Plants, Ready Now.

BEAUTIES, 2 1-2 inch pots, $8.00 per 100, $70.00 per 1000.
PINK AND WHITE KILLARNEY, 2 1-4 inch pots, $6.00 per 100, $50.00 per 1000.

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., **PHILADELPHIA**

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS
FOR FLORIST'S USE **R** THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.
Cut Flowers All the Year Round
33-35-37 RANDOLPH STREET, CHICAGO
Greenhouses, Morton Grove, Ill.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 23			CHICAGO July 21			BUFFALO July 21			PITTSBURG July 7		
Am. Beauty, Fancy and Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00	15.00	to	20.00
" " Extra	10.00	to	15.00	15.00	to	20.00	10.00	to	12.00	10.00	to	12.00
" " No. 1	6.00	to	10.00	10.00	to	15.00	5.00	to	8.00	6.00	to	8.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	2.00	to	3.00	2.00	to	4.00
Killarney, Extra	4.00	to	6.00	4.00	to	6.00	4.00	to	6.00	6.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Richmond, Maryland, Extra	4.00	to	6.00	4.00	to	6.00	4.00	to	6.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Bride, Maid	.....	to	.....	2.00	to	6.00	.....	to	.....	.....	to	.....
Hillingdon, Ward, Melody, Extra	.....	to	.....	4.00	to	6.00	.....	to	.....	6.00	to	10.00
" " Ordinary	.....	to	.....	2.00	to	4.00	.....	to	.....	.....	to	4.00
Taft, Sunburst, Cardinal	.....	to	.....	3.00	to	6.00	.....	to	.....	5.00	to	8.00
Carnations, Fancy Grade	1.50	to	2.00	.....	to	1.50	1.00	to	1.50	.....	to	3.00
" Ordinary	.75	to	1.00	.....	to	1.00	.50	to	1.00	.....	to	2.00
Cattleyas	.....	to	.....	...	to	50.00	35.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	6.00	to	10.00	8.00	to	8.00	6.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	3.00	to	6.00	5.00	to	6.00	3.00	to	5.00	4.00	to	8.00
Daises	.....	to	.....	.15	to	.25	.40	to	1.00	1.00	to	3.00
Snapdragon	.....	to	.....	2.00	to	5.00	2.00	to	3.00	...	to	.....
Sweet Peas	.25	to	.50	25	to	.75	.20	to	.50	.50	to	1.00
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	...	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	.....	to	50.00	25.00	to	35.00	40.00	to	60.00	35.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	35.00	to	50.00	25.00	to	35.00	35.00	to	50.00

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.
WHOLESALE COMMISSION FLORISTS
CONSIGNMENTS SOLICITED
Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.
Phone Main 584. 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE

Flower Market Reports

BOSTON A light supply in general, together with a constantly augmenting call from the summer resorts is giving a fairly firm tone to this market. There are no carnations to speak of but asters are beginning to come into the ring and they are bringing fine prices for the quality offered. "Summer" roses are in their glory and they sell satisfactorily. There are lots of gladioli and plenty of lilies. But nobody is perspiring in the effort to develop commerce and so the goods sell if they are needed—otherwise they stay in cold storage.

BUFFALO There is very little to report only that the cut flower market is still on the quiet side. There seems to be enough stock for the little business that is had, though the quality on roses and carnations is not of the best. The latter are shortening up considerably and it will be only a matter of a week or so that there will be but very few to be had. Asters have made their appearance though quality lacks. There are some gladioli, which have taken quite satisfactorily. Beauties are fairly good and lilies are good and plentiful. The wholesaler still continues to carry the stock and the retailer buys only what is necessary.

CHICAGO A good shipping trade has cleaned the market of all good stock during the past week and much more could have been used to good advantage had it been available. Carnations are practically out of the race except in very limited quantities, the few asters now in being insufficient to take the place of the carnations, but a decidedly larger supply of these is expected by Aug. 1st. New American Beauties are fine for July and there is no lack of buyers. All kinds of summer roses, the old standbys and the newer sorts, are to be had, good in quality and sufficient in quantity, and are perhaps the mainstay of the market at present. In lilies, longiflorum are now most in evidence and sell quickly. A few sweet peas are seen daily but it is out of season and stems are short. Lily of the valley is exceptionally good for midsummer and sales are keeping up well. Tuberoses have made their appearance but are rather small. Many of our wholesalers received large orders from New Orleans last week, which made things lively, for shipping stock is none too easy to get.

CINCINNATI The good demand that started about the time the market became tight is lasting to date and is even better for everything good. Increased receipts are cleaning up easily. Shipping business is pretty good. The rose cut is increasing and most of the blooms are of a good summer quality. Gladioli have increased rapidly. Good ones sell readily, while a lot of poor stock cannot even be jobbed. Very few carnations are coming in. The lily cut is decidedly limited and as a result receipts sell at sight. Lily of the valley are cleaning up well. Smilax is still on the short side in the green goods market.

1914 NEWS

Killarney Brilliant



The sensational new Killarney Sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years. Booking orders now.

GRAFTED, $7.50 per doz., $35.00 per 100, $150.00 per 500, $300.00 per 1000.

OWN ROOT, $6.00 per doz., $30.00 per 100, $125.00 per 500, $250.00 per 1000.

Delivery During March.

Also scions for grafting in 1000 to 5000 lots at $200.00 per 1000. Special prices in larger quantities. Delivery in December.

MATCHLESS

The splendid new white Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. $12.00 per 100, $100.00 per 1000.

We guarantee not only the quality of our plants, but their safe delivery by express.

RIBBONS and SUPPLIES

Many new patterns in exclusive ribbons. Write us for prices on these and on supplies.

During July and August we close at 5 P. M.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N. W.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON July 24			ST. LOUIS July 14			PHILA. July 21		
Roses									
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.50	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Richmond, Maryland, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" " Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Bride, Maid	.50	to	4.00	3.00	to	4.00	.....	to	.....
Hillingdon, Ward, Melody, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	8.00
" " " Ordinary	.50	to	2.00	3.00	to	4.00	1.00	to	3.00
Taft, Sunburst, Cardinal	2.00	to	8.00	8.00	to	10.00	1.00	to	8.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	1.00	to	1.50	.50	to	1.50
Cattleyas	25.00	to	35.00	40.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	4.00	to	6.00	8.00	to	10.00	8.00	to	10.00
Lily of the Valley	1.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	2.00	to	4.00	4.00	to	6.00	1.00	to	4.00
Daises	.40	to	.50	1.00	to	[illegible]	.....	to	.....
Snapdragon	.....	to	.....	3.00	to	4.00	1.50	to	3.00
Sweet Peas	.40	to	.60	.20	to	.35	.25	to	.50
Gardenias	4.00	to	6.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	25.00	to	50.00

NEW YORK Quiet times in the wholesale district. The chief operators are usually to be found at the seat of war regularly every morning—others, newly-rich and otherwise are at their country seats. If you really want to consign your goods to the New York market or if you wish to buy in that market, consult this office and we can tell you a lot about the proposition. Our advice you will find to be safe, and a cure for all ills. There is some good business going on now for the July hiatus is at an end. The new season has come in and it is time for all to get busy.

PHILADELPHIA Record of week's trading in our local flower markets here very fair. In fact, we find things in some quarters unusually brisk for this season of the year. Of course, we find spots where the non-advertisers dwell in which they say

(Continued on page 121)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 53

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending July 19 1913	First Half of Week beginning July 21 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Maryland, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Bride, Maid	.25 to 2.00	.25 to 2.00
Hillingdon, Ward, Melody, Extra	2.00 to 4.00	2.00 to 4.00
" " " Ordinary	.50 to 1.00	.50 to 1.00
Taft, Sunburst	1.00 to 4.00	1.00 to 5.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.50
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone 3532-3533 Madison Square

CENTRALLY LOCATED. THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M ROBINSON Pres MAURICE L GLASS Treas
CHAS E ROBINSON V Pres JOSEPH MARGOLIS Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
BOSTON
FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST
HOUSE

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 119)

business was very bad. But on the whole the situation was distinctly encouraging. Those who take advantage regularly, year in and year out, of HORTICULTURE'S publicity service, are adding new customers all the time, and so are able to make good reports even in the doldrum period. Good roses were in demand, and good roses were more in evidence. Much of the short, miserable, soft, mean, little buds that loaded the counters ten days ago, have disappeared. Marylands are especially good. Beauties plentiful—the long ones particularly. The gladiolus situation remains the same as reported last week—only more so. Never have we had such quantity or quality. And they all go and at good prices—so far. Princeps and Mrs. Francis King, those magnificent big scarlets, are marking new time in the gladiolus world commercially. America commenced it, of course, but she has good company now. Some Kunderdi Glory around—splendid and unique in size, fine color, and beautifully frilled flowers. What we have seen, however, seem easily bruised and require extra careful packing to show up as they should to the buyer.

ST. LOUIS

The market is not in a very good condition owing to the scarcity of good quality of stock. The demand last week for Beauties and white flowers of any kind was large. There is at present a large supply of high grade gladiolus spikes in all varieties, the best sellers being Maize, America, Augusta and Mrs. Francis King, and all bringing top prices. There are also a lot of mixed varieties of various colors for which there is hardly any demand. Call during the last week was good for Beauties, lilies and lily of the valley.

CLUB AND SOCIETY NOTES.

An additional special prize to be awarded at Minneapolis, Minn., by the American Gladiolus Society has been donated by Jacob Thoman & Sons, Rochester, N. Y., for "25 spikes of the best white gladiolus." This will be known as open class 19.

The monthly meeting of the Cook County Florists' Association was held at The Tavern, Chicago, Thursday, July 17. Picnic arrangements were reported by Chairman John Zeck, picnic to take place Sunday, Sept. 7, at Earthhauser's Grove. It was voted to invite Mr. Wallace to speak at the Sept. meeting, on greenhouse insurance. The next meeting will be on Aug. 14th instead of 21st, on account of the S. A. F. Convention. Steps were taken to ascertain how many members of the club are also members of the S. A. F.

The Yonkers (N. Y.) Horticultural Society held their monthly meeting in Hollywood Inn on Thursday night, July 3rd. Howard Nichols read a very interesting paper on "The Sweet Pea, Its Origin and Culture." A lively discussion followed on the different ways of getting the best results outside, some favoring sowing in the fall with winter protection, while others thought as good results could be had by sowing in pots and boxes under glass in the spring. Harry Wells was awarded the prize presented by Mr. Nichols for collection of sweet peas, also a cultural certificate for Telegraph cucumbers grown in frames. The next regular meeting will be held on the first Friday in August.

A joint summer meeting of the Maryland and Delaware Horticultural Societies will be held at Berlin, Md., July 31, 1913. The Societies will be the guests of J. G. Harrison & Sons.

The object of the summer meeting is to enable the members to observe practical operations in horticulture. The firm of J. G. Harrison & Sons conducts one of the largest nurseries in the East, having about 2500 acres under cultivation. In addition they are planting out large orchards in the vicinity. They have 10,000 peach trees bearing a full crop this season. The crop was saved by careful and persistent spraying with self-boiled lime-sulfur against brown rot.

A short meeting of the association will be held during the afternoon with an address by Congressman J. Harry Covington.

The Westchester and Fairfield Horticultural Society met in Dorans Hall, Greenwich, Conn., on July 11th. Discussion took place on the preliminary prize schedule, nothing of consequence being altered, and the final schedule will soon be out. Adrian Iselin, Jr., of New Rochelle kindly donated a prize of $50.00 for the fall show. A few choice exhibits were made and were judged as follows:

Wm. Morrow, cultural certificate for Eucharis Amazonica. J. McAllister, honorable mention for Buddleia variabilis magnifica. Mrs. Paul F. Dwinger, honorable mention for pot-grown hydrangeas. P. W. Papp, honorable mention for Allamanda Shotti. Thos. Ryan, vote of thanks for canna Mrs. F. Conard, Wm. Morrow, vote of thanks for Gypsophila paniculata flore pleno. P. W. Popp, vote of thanks for mammoth zinnias. Dehn & Bertolf, vote of thanks for Catananche coerulea, Stokesia cyanea, Delphinium chinensis.

OWEN A. HUNWICK,
Cor. Sec'y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending July 19 1913	First Half of Week beginning July 21 1913
Cattleyas	15.00 to 30.00	15.00 to 30.00
Lilies, Longiflorum	1.00 to 2.00	2.00 to 3.00
Lily of the Valley	1.00 to 2.00	1.00 to 3.00
Gladioli	2.00 to 6.00	2.00 to 6.00
Daises	..... to .50	..... to .50
Snapdragon	2.00 to 4.00	2.00 to 4.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

PERSONAL.

Prof. Charles S. Sargent has gone to the Pacific Coast, where he will spend about one month.

Charles R. Russell succeeds the late Mr. A. Robie as superintendent of the Helen Gould estate at Irvington N. Y.

Charles Schenck of Traendly & Schenck, New York City, is having a vacation with his family in the Catskills.

E. W. Fengar, of Irvington, N. J., has just returned from a sail to Nova Scotia in time to start on an auto trip. It is fine to be rich.

Alexander McWilliams, head gardener of the I. M. Davis estate, Newport, R. I., has resigned and intends visiting Scotland with Mrs. McWilliams.

We learn that R. H. James of St. Georges, Bermuda, is seriously ill. The nature of the trouble we do not know but we hope we may soon hear of his complete recovery.

George F. Chadborn, president of Schaefers, Inc., Newburgh, N. Y., is in the hospital suffering from a broken arm and general shock, having been thrown by a runaway horse on July 6.

W. J. Thurston, manager of the Boston Flower Exchange, was married on July 3rd to Miss Katherine M. Bulger at her home in East Boston. After their honeymoon they will reside at 821 Centre street, Jamaica Plain, Mass.

Boston visitors: Walter Mott, representing Benj. Hammond, Fishkill, N. Y.; W. R. Cobb of Lord & Burnham Co., New York; A. E. Thatcher, Bar Harbor, Me.; Roy I. Rapp of Greenhouse Construction Co., Bloomfield, N. J.; D. Lumsden, Durham, N. H.; Fred C. Green, Providence, R. I.

Cincinnati visitors: Jos. Hill, Richmond, Ind.; John Lodder, Hamilton, Ohio.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

ASTERS

Strong seedlings, 1000 each, Crego, pink, white; Smith's Peerless, white; $3.00 per 1000. A. H. FAXON, Southbridge, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

BULBS AND TUBERS—Continued

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Morris & Snow Seed Co., 425 S. Main St., Los Angeles, Calf.
Freesia Blubs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 202 Fairmount St., Lowell, Mass.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

Smith's Advance, 2½ inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

Cyclamen, 3 in. pots, very finest strain, $10.00 per 100.
JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers

William M. Davidge, P. O. Box 5, Brooklyn, N. Y.
Phosphorus.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

For List of Advertisers See Page 99

FLORISTS' LETTERS
Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES
N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS
W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX
Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS
R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS
John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS
Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS
H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL
A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

GUTTERS
King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE
Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS
Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS
Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE
H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH
A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS
A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES
Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tobacco Dust.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

IRIS! IRIS!
One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS
Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL
Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI.
F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

LILIUM MYRIOPHYLLUM.
R. & J. Barquhar & Co., Boston, Mass.
For page see List of Advertisers.

LILY BULBS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS
Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York, N. Y.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA
F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.
Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

Wanted—For early Fall planting, nine thousand strong 3 or 4-year-old California Privet. Quote lowest price F. O. B. Philadelphia. JOSEPH HURLEY, Haverford, Pa.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.

We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

"PEONIES FOR PLEASURE."

This book of "Peonies for Pleasure" gives information on peony history, soil and plants to use, how and when to plant, fertilizers and how to apply, and describes the most extensive planting of really valuable peonies ever gathered together under the sun; describes the old and new, as well as the plebeian and aristocrat of the peony family. If you want information on the plant that stands next to the rose in beauty, that is practically known to the amateur as simply a red, white and pink peony, then send for "Peonies for Pleasure."

We also issue a special wholesale price list of peonies for fall sales, 1913. Send for both of the booklets.

Our catalogue of everything you need mailed on application. Write for it today.

THE GOOD & REESE CO.,
The Largest Rose Growers in the World.
Box 10, Springfield, Ohio.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
389 River St., Chicago, Ill.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's $1 doz. by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Young Rose Stock—Grafted and Own Root.

ROSES—Continued

Extra strong bench American Beauty plants, in fine condition, only $35.00 per 1000, $40.00 per 1000 in 500 lots; smaller lots, $4.50 per 100. THE FLOREX GARDENS, North Wales, Pa.

Roses—From 3-in. pots, Mrs. Taft and Killarney Queen. Open to an offer. FLUSHING ROSE GARDENS, 69 Colden Ave., Flushing, N. Y.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

B. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cay.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave.,
Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

In writing to Advertisers kindly mention Horticulture

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SNAPDRAGON

Snapdragons. Rooted cuttings, fine strains of silver pink, white and yellow, $2.00 per 100; $15.00 per 1000. Pot plants one-third more. WM. SWAYNE, Kennett Square, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

R. & J. Farquhar & Co., 6 & 7 South Market St., Boston, Mass.
Pot-Grown.
For page see List of Advertisers.

Breck-Robinson Nursery Co.,
Lexington, Mass.
Pot-Grown.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Celery plants, fine outdoor grown, Giant Pascal and Columbia, $1.25 per 1000; 5000, $5.00. Cash. J. KEHL, R. D. 3, Canton, Ohio.

500,000 Extra Fine Celery Plants—Self-blanching, White Plume, Winter Queen, Giant Pascal, $1.00 per 1000. Dagger Ferns, $1.25 per 1000. Sheet Moss, bag, $1.25. Clump Moss, bag, $1.25. Rhododendron Leaves, 50c. per 1000. Cash with order. JOHN E. WHITE, Carpenterville, N. J.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works.
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.,
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.,
Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CELERY PLANTS.
W. & H. F. Evans, Rowlandville, Pa.
For page see List of Advertisers.

EREMURUS.
Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.

KILLARNEY BRILLIANT.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

PANSY SEED; FREESIA AND LILIUM HARRISII BULBS.
J. M. Thorburn & Co., 33 Barclay St., New York.
For page see List of Advertisers.

REMOVAL NOTICE.
Burnett Bros., 72 Cortlandt St., New York.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

FOR SALE

FOR RENT

A greenhouse, about 5000 ft. glass, with about one acre of land. Large boiler, nearly new.
EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1034.

FOR SALE OR RENT

Greenhouse plant of 15,000 ft. of glass, in good running condition. Hot water heat. Good home trade. JOHN IRVING, 161 Pearl St., Newton, Mass.

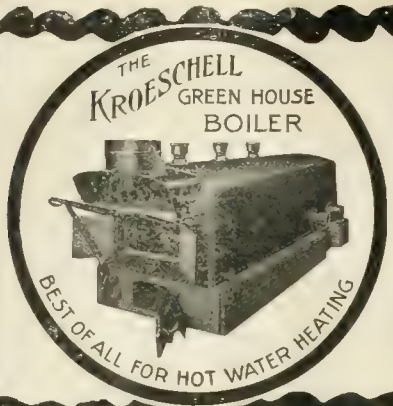
FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

For List of Advertisers See Page 99



What the Users Say

KROESCHELL BEST OF ALL

The Kroeschell Boiler I installed last year usually runs from 10 p. m. to 6 a. m. without attention. I do not have the least trouble to keep temperatures in the coldest weather. The boiler has given entire satisfaction.

The Kroeschell is the best boiler we have ever handled.

Madison, N. J., June 30, 1913. (Signed) CHARLES TOTTY.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Eugene, Ore.—F. B. Chase, house 48 x 200.

Lincoln, Neb.—J. K. Hiltner, one house.

Cincinnati, Ohio—Henry Schwarz, one house.

Canajoharie, N. Y.—Joseph Traudt, rebuilding.

Wollaston, Mass.—Wm. Patterson, rebuilding.

Worcester, Mass.—Benj. F. Harrington, one house.

Wenatchee, Wash.—Milot-Mills Co., house 18 x 200.

Ottawa, Ill.—Davis-Harrison Co., house 65 x 900.

Nashville, Tenn.—McIntyre Bros., range of houses.

Nashville, Tenn.—Haury & Sons, range of houses.

Monmouth, Ill.—Charles A. Hewitt, two houses 30 x 75.

Hartford, Conn.—Edw. Welch, Annawan street, one house.

Morristown, N. J.—J. M. Barker, sweet pea house, 45 x 125.

St. Paul, Minn.—H. J. Pauvogel, Grand avenue, one house.

Scranton, Pa.—Jonathan Rodman, 1107 Blair avenue, one house.

Flint, Mich.—Arthur T. MacKinnon, 118 E. Fifth street, one house.

Grand Lodge, Mich.—Doty & Huggert, Moninger house 24 x 100.

Bridgeport, Conn.—Charles Pflomm's Sons, Barnum avenue, addition, Lord & Burnham construction.

Columbus, Ohio—A disastrous hail storm visited this city, July 9th, and while the area was limited, the damage to crops and buildings is estimated at $150,000. The Columbus Floral Company were the heaviest losers and place their loss at $20,000.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

It's a KinG

IDEAL BOILER

that you want in your

GREENHOUSE

This boiler is especially built to burn soft coal, and is SMOKELESS and saves 1-3 of the season's fuel bill. King Greenhouses, Boiler, Garden Frames, etc., are all money savers. Write for reasons.

KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N. Y.
"All the Sunlight all day houses."

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

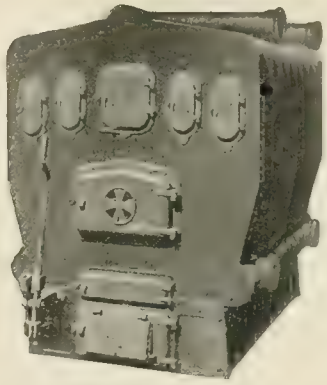
THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



Grates Shake in Half.



Easy To Set Up.



Easy On Coal.

Boiled Down Boiler Facts

IN spite of the fact that we are one of the largest makers of cast iron greenhouse boilers, we are not so narrow-minded we can't see that wrought iron boilers have their merits and their uses.

But for the uses that our cast iron boiler is intended, we do know there's not a boiler made that can beat it.

Cast iron boilers have many undebatable advantages—such as easy erection. Easy enlarging. Easy to care for. Easy on coal. Easy on the pocket-book for repairs, because they are slow to rust and require no retubing.

The fact that we were absolutely the first concern in the country to make a special business of greenhouse heating, (that was along in the seventies) is a pretty strong guarantee that any boiler we sell for greenhouses is the best of boilers for the purpose. Hitchings boiler is a full blooded greenhouse boiler; not a mongrel residence and greenhouse boiler combined. Being economical for greenhouse heating, it is doubly so for residence work.

Our Full Bloods will heat from 300 to 18,000 square feet of glass. Peter Henderson last Fall put in three of them in preference to one of the big tubular kind.

Now is the time to talk heating with us. Be ready before Jack Frost gets ready. He does not put his work off.

NEW YORK OFFICE
1170 Broadway

Hitchings and Company

PHILADELPHIA OFFICE
Pennsylvania Bldg.
15th and Chestnut Sts.

FACTORY, Elizabeth, N. J.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

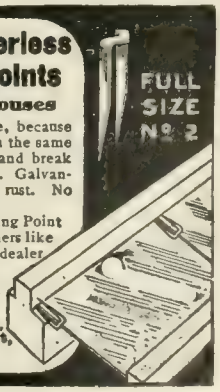
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

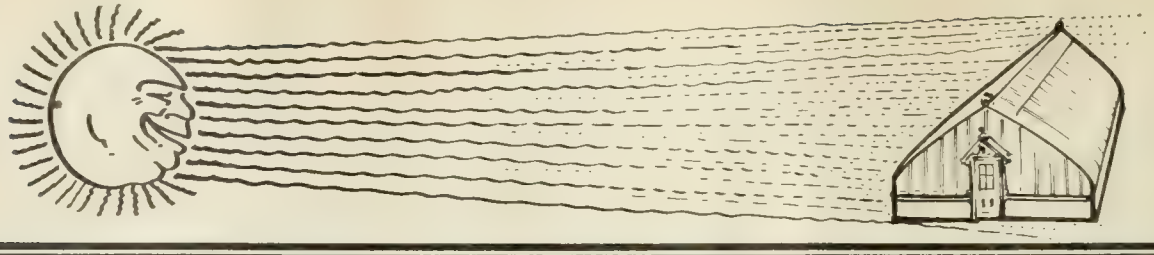
GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.





The First Rays Make Most Growth

THE fact that in the first few hours of the morning plants make more growth and better growth than in all the rest of the day, is a very vital point to have in mind when deciding on buying a greenhouse.

The lighter the construction of your greenhouse is, the quicker and stronger will be the growth. The greater will be the returns on your investment.

U-Bar Greenhouses have a complete galvanized, aluminum painted steel frame, that makes them not only the lightest houses built, but rigid, enduring, and low in up-keep costs.

The first rays and the last rays of light count with U-Bar houses because their extreme lightness permits the greatest amount of light to reach the plants.

Graceful and attractive as the U-Bar construction is, its efficiency is after all, the thing.

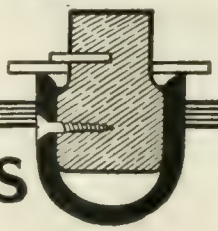
They cost more but they are worth more, because results are more and cost of maintenance less.

We tell you these facts as a matter of protection.

Send for catalog or send for us—or both.



ERECTED FOR W. R. HARRIS, IRVINGTON, N. Y.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVIII. AUGUST 2, 1913 No. 5

BOTANIC GARDEN



GLIMPSE OF TEN THOUSAND CROTONS AT ROBERT CRAIG COMPANY'S
One of Eight Houses Erected at Norwood, Pa., Last Year by the Lord & Burnham Co.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

STRAWBERRIES

Farquhar's Pot-Grown Plants

NOW READY!

FULL CROP NEXT SUMMER IF PLANTED EARLY

Write for our Mid-Summer Catalogue of Varieties for July and August Planting

R. & J. FARQUHAR & CO.

6 and 7 SOUTH MARKET ST., BOSTON, MASS.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL, Summit, N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.
369 RIVER ST., CHICAGO.

CHRISTMAS PEPPERS

New Cluster Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMROSES—OBCONICA AND CHINESE

The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

POINSETTIAS

Strong Plants, true type, from 2½-in. pots. $6.00 per 100, $55.00 per 1000. Shipped in paper pots.

500 at more at 1000 rates. Cash with order.

FRANK OECHSLIN, - 4911 Quincy Street, Chicago, Ill.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

GERANIUMS

We have a splendid lot ready, in a fine assortment of good plants in 3 in. pots, for Fall and Winter Blooming at $3.00 per 100, $25.00 per 1000. Good 2 in. stock at $2.00 per 100, $18.50 per 1000. We are booking orders for next season. Get our Catalogue and Prices.

We cover the field of useful varieties.

SMILAX, good strong 2 in. pots, $2.00 per 100, $17.50 per 1000.
ASPARAGUS SPRENGERII, 3 in. pots. $5.00 per 100, $40.00 per 1000.
ASPARAGUS PLUMOSUS NANUS, 3 in. pots, $5.00 per 100, $40 per 1000.
HEAVY ENGLISH IVY, 2 in. pots, $2.00 per hundred, 3 in. pots, $3.00 per 100.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties .... for ....

July and August Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

LIST OF ADVERTISERS

Page
Advance Co.....159
Albany Cut Flower Ex.....152
Allen, J. K.....152
Anderson, S. A..147
Aphine Mfg. Co.143
Aschmann, G....142
Atlanta Florist Co. 150
Ayres Co., S. Bryson 145
Badgley, Reidel & Meyer 152
Barnard, W. W. Co. 145
Barrows & Son..132
Bayersdorfer, H. & Co.....149
Bay State Nurseries 131
Bloomingdale's ..146
Bobbink & Atkins 142
Boddington, A.T.141
Bolgiano & Son, J. 145
Braslan Seed Growers' Co...145
Boston Florist Letter Co.....150
Breck, J. & Son.144
Breck - Robinson Nurseries 131
Breitmeyer's, J. Sons 146
Bryan, Alonzo J.130
Burnett Bros....144
Burpee, W. A. & Co. 145
California Florist 147

Page
California Seed Growers' Asso.145
Carbone 147
Chicago Carnation Co.....150
Childs, John Lewis 144
Clarke's, D., Sons 146
Clark, Everett B. Seed Co.....145
Cooke, Geo. H...148
Cowee, W. J....152
Craig, Robt. Co. 130-140
Dards 146
Davidge, Wm
Dawson, H. S...131
Dorner & Sons Co. 130
Dreer, H. A.....159
Dunlop, John H.147
Dysart, R. J....152
Eastern Nurseries 131
Edwards Folding Box Co.....150
Elliott's, W., Sons 158
Eppstein, Julius.147
Ernest, W. H...158
Esler, J. G.....159
Evans, W. & H. F. 144
Eyres 146
Fairfield Landscape & Nursery Co.....142
Farquhar, R. & J. & Co.....142

Page
Ford, W. P.....152
Forrest, Frank H. 147
Froment, H. E..152
Fottler, Fiske, Rawson Co....145
Framingham Nurseries 142
Galvin, Thos. F.147
Gasser, J. M. Co.147
Goodsell, P. H..131
Grey, T. J. Co..145
Gude Bros.Co.142-146
Hail Association.159
Hall & Robinson.147
Hammond Paint and Slug Shot Works 143
Hart, Geo. B.....150
Heacock, Jos.....130
Heinecken, Otto.145
Henderson, A....130
Hess & Swoboda.146
Hews, A. H. & Co. 158
Hilfinger Bros...158
Holland Nurseries 142
Holm & Olson...146
Jacobs & Sons, S. 159
Johnson, J. Oliver 144
Johnston Bros...147
Kasting, W. F. Co. 153
Keller, J. B. Sons 146
Kervan Co.....152

Page
King Construction Co....157-158
Kramer, F. H...147
Kroeschell Bros.159
Kuebler, W. H..152
Lager & Hurrell.130
Lange, A.....147
Lemon Oil Co...143
Leonard Seed Co.144
Leuthy, A. & Co.132
Loechner & Co..142
Lord & Burnham 160
MacMulkin, E....147
May & Co., L. L.147
McConnell, Alex.146
McCarthy, N. F. Co. 153
McCray Refrigerator Co.....149
McCullough's Sons Co., J. M.....150
McHutchison & Co. 132
McKenzie, John..130
McManus, Jas...152
Michell's Seed House 144
Michigan Cut Flower Ex....150
Millang, Chas....152
Miller, E. S.....144
Montreal Floral Exchange 152
Moore, Hentz & Nash 152
Murray, Samuel.146
National Nurseryman 142
N. Y. Stable Manure Co.....143

Page
Neissen, Leo Co.150
Oechslin, Frank.130
Ouwerkerk, P....142
Park Floral Co..146
Palmer, W. J. & Son 146
Parshelsky Bros.159
Pelicano, Rossi & Co.....147
Penn, the Florist 147-148
Pennock - Meehan Co. 151
Pierce Co., F. O.159
Pierson, A. N...130
Pierson, F. R. Co.132
Plant Food Co., 20th Century..143
Poehlmann Bros. Co. 150
Pollworth, C. C.146
Pulverized Manure Co.....143
Quaker City Machine Co.....159
Reed & Keller...152
Reinberg, Peter.150
Rice, M. Co.....147
Robinson Co., H. M. 152
Roehrs, J. Co...130
Roland, Thomas.130
Rolker, A. & Sons 132-158
Rosery, The.....146
Sander & Son...130
Scott, John.....130
Schling, Max....147
Sharp, Partridge & Co.....159
Sheridan, W. F..152

Page
Siebrecht, Geo. C.152
Siggers & Siggers 159
Skidelsky, S. S. & Co.....144
Smith, P. J.....152
Smith & Co., E. D. 131
Smith, W. & T. Co. 142
Smyth, Wm. J..146
Sprague, J. H...130
Stearns, A. T. Lumber Co....159
Syracuse Pottery Co. 158
Totty, Chas. H..142
Thorburn, J. M. & Co.....145
Traendly & Schenck 152
Valentine, J. A..146
Van Assche, F...159
Vick's Jas. Sons.145
Vincent, R., Jr., & Sons Co.....131
Wants, For Sale.157
Ward, R. M. & Co. 132
Weeber & Don...145
Welch Bros. Co..150
Whittier & Co., W. B. 142
Wilson, Robt. G.146
Wood Bros.....142
Woodrow & Marketos 152
Young & Nugent.146
Zangen, O. V....145
Zinn, J. A.....147
Zvolanek, Ant. C.145

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 154, 155, 156, 157

The Wonderful Thing

about Horseshoe Brand Lily bulbs is not the price—but the quality given for the price. It don't matter so much what price you pay—it's what field your lily bulbs come from that's the criterion of real value. Some fields are dear at any price and some are worth your money. Horseshoe Brand bulbs come from fields which are positively the best in Japan. Prices in catalog—get one.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at	$ 6.00	each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"
" 250	" 8-10	at	25.00	"
" 180	" 9-11	at	22.00	"

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

LILIUM HARRISII

For Immediate Delivery

We have received our first consignment of Harrisii, and offer a selected stock of the original true Harrisii for early forcing. The stock was grown from the original true type, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. The crop this season is much shorter than usual, but we are still in position to supply a nice lot of selected stock, and can now make delivery from first shipment.

6 to 7 inch bulbs, 350 to the case, $5.50 per 100; $45.00 per 1000
7 to 9 inch bulbs, 200 to the case, $9.00 per 100; $82.50 per 1000

Full case lots at thousand rates.

HYDRANGEA OTAKSA

BLUE AND PINK.
IN BUD AND BLOOM, FOR IMMEDIATE USE.

We have a fine stock of pot-grown plants in 6-in. and 7-in. pots, in fine shape, just beginning to show color, 35c. and 50c. each.

We offer, also, a large stock of well-budded plants for July and August flowering. Plants in large tubs, $2.00 and $3.00 each; extra large specimens in half-barrels, $5.00 and $7.50 each.

FINE FERNS FOR SUMMER DECORATION

We have a fine stock of the following varieties of Nephrolepis:

ELEGANTISSIMA: 6-in. pots, 50c. each; 8-in. pots, $1.00 each.
HARRISII form of Bostoniensis—the best of all the plain-leaved type: 8-in. pots, $1.00 each; very large specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

White Killarney, Pink Killarney, Richmond, Lady Hillingdon and Killarney Queen.

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON
NEW YORK

Ferns in Flats

ALL VARIETIES

We are now shipping and will continue until Sept. 1st to ship Flats by express. Flats contain about 110 clumps.

Price $2.00 per flat, 20 or more flats $1.75 each.

Write for list of varieties, illustration and full particulars.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 31 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H.H. BARROWS & SON, Whitman, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Cattleyas

Cattleyas Trianæ, Percivaliana, Schrœderæ, maxima, Mossiæ, Walkeriana and others should now be showing very active growth. Do not keep them too heavily shaded. It is always better to provide some movable shading that can be put on from about 9 o'clock in the morning until about 3 in the afternoon on bright days. On dull days it can be left off entirely. Watering should be carefully attended to every day. Give light overhead syringings and damp down the floors and benches two or three times a day during any hot spells. Give plenty of ventilation during the day and leave a couple of inches of air on the top ventilators which will prevent too much humidity. Look the plants over for insects about every ten days.

Care of Smilax

Smilax benched early in June should now be advancing very rapidly. Smilax when doing well makes very vigorous roots and will want water abundantly supplied. Always avoid careless watering which usually leaves the surface wet, while the under soil remains dry. Syringe on all bright days. This will keep red spider in check. Provide strings just as soon as the plants are willing to climb. Keep the beds well cultivated between the plants and during torrid weather ventilate freely.

Mulching and Feeding Chrysanthemums

Earliest benched chrysanthemums will now need to be mulched. A layer of about an inch evenly spread over the surface will serve the purpose of preventing rapid escape of moisture, and the richer it is in readily available plant nutriment—barring for the present all mineral fertilizers—the better it will be. Start with a light mulch of well-rotted manure. Don't put the manure on too thick; just enough to cover the soil to the depth of about an inch is sufficient, remembering that it is better to apply it at two or three different times than to give one heavy coat. Give all pot-plants that are well established, liquid manure once a week. When the bench stock show their buds they should have liquid feed, too. Where you want short jointed and sturdy growth give abundant ventilation. Keep the beds clean by frequent stirring of the surface and give extra attention to watering.

Poinsettias in Pans

Keep right on propagating poinsettias. You will have use for plenty of dishes and pans filled with them for Christmas trade. Any ordinary greenhouse or frame can be used for propagating purposes. Never let them wilt. If you do they will shrivel up and perish in the sand. It is also necessary to keep them shaded from the sunshine. Guard against sunshine and draughts and see that the bed is kept saturated and you will have no trouble in rooting a high per cent. Just as soon as they are nicely rooted pot them into 2 or 2½-inch pots using a compost of fibrous loam three parts, well decayed cow manure and leaf mold one part each. Keep shaded and moist until they take hold of the compost after which they should have full sun.

Propagating Crotons

Now is a good time to propagate these plants and the sooner a beginning is made the better. Old plants that have become lanky and unsightly will give good material for propagation. There is no better method than by mossing. Make a cut with a sharp knife upward about half an inch through the wood on any tops that have been denuded of some of the leaves. To keep the incision open place a little sphagnum moss in the cut, and then cover it with some moss about the size of an egg and tie it on. Plants so treated should be placed by themselves where they can be kept moist all the time. By keeping the moss wet and the atmosphere well charged with moisture they will soon show roots through the moss. Keep the roots of the plants themselves on the dry side.

Repairing Heating Apparatus

Now is the time to look after heating apparatus and get everything in perfect working order for winter. It frequently happens that a close inspection will reveal defects in the boiler or piping that have escaped detection up to now. These defects which at first seem but a small affair often rapidly augment themselves in proportion and seriousness, so now see that they are remedied.

Mr. Farrell's next notes will be on the following: Callas; Cinerarias; Lilium Harrisii; Primulas for Late Winter and Spring; Sweet Peas for Early Winter Flowering; Roman Hyacinths.

Minneapolis Convention Number

Will be issued August 16. Goes to press, August 13 and 14. Will introduce you to a fresh field for business enterprise and a new line of prospective customers.

Will be circulated where it will do you good.

Don't Miss It

Send Copy and Instructions Early.
We'll Do The Rest.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

A Contrast

Yes it was quite a contrast indeed to see a bench planted to that good old variety, Bridesmaid, and another bench planted to Mrs. George Shawyer. There they were, each in its glory. The only difference was the old and the new. We say the only difference, but it was not the only difference after all, for the Bridesmaid, good enough in days gone by, could never begin to be in the race with its newest rival, not only in the quality of the cut flowers, but all the way around, including stem, foliage, productiveness, keeping qualities and all the rest of the points. There are less Brides and Bridesmaids grown for the market in the east now than there ever were before. In fact ask many wholesalers for some of these and they will look at you for a while to see if you mean it.

Mildew

When the Killarney made its first appearance, its great drawback was its greater liability to mildew than the varieties then in cultivation. In fact it was said by many that Killarney could not be grown without mildew, and this was thought to be true, and yet there are thousands of Killarneys grown today without even a speck of mildew, and it will be the same with the new varieties just now being commercialized.

Black Spot on Beauties

Although it is still early in the season it is best to keep a sharp lookout for this disease on all the early planted houses, and it is not a very bad idea to take all the necessary precautions to prevent spot setting in. Experience will show that spot will usually set in on and among the clusters of bottom leaves, leaves that come in contact with the soil. It is therefore advisable to go over the plants every now and then and pick off any leaves that may be too low for safety. It is best not to do this all at once as it might then have a weakening effect on the plants. Begin when the plants branch out and the shoots begin to reach the first wire, and then keep on picking off all the surplus foliage. Another advantage to be gained when the lowermost leaves are picked off is the fact that red spider generally manages to secure a foothold among these leaves, and once it has been admitted it will not be so very easy to rid the plants of it, as it is very difficult indeed to reach these with the hose while syringing.

Lime

The season is far enough advanced now to make it necessary to use lime regularly, dusting or blowing it underneath the foliage last thing at night, and not being afraid of using too much. There is a little trick in doing this just right, as has been stated in these columns before and that is to blow the lime underneath the plants rather gently, so that the lime dust thus produced will rise slowly, instead of blowing out on the other side of the bench as it would should too much force be used. Properly applied dry air-shacked lime is of great value to the rose grower.

Liming the Benches

It is yet rather early in the season to apply much lime to the benches but still in the early planted houses it may be necessary to use a little to insure good sturdy growth. When applying the lime, it is best to use only a little at a time, just enough to whiten the surface of the benches. Then go over it and rub the lime around so as to make sure that it will stay where it was put and soak into the benches evenly when water is applied, instead of settling too much in one spot, and very little in another.

Greenfly

In spite of all said and written this pest still finds plenty of room for existence on many places, and a word or two on this old topic will not be altogether out of place. With the hot weather of the past two weeks, fumigation could hardly be resorted to, and yet that is no excuse whatever for not having the plants free from Aphis. With the many good spraying materials that are now on the market it ought to be a simple matter to keep them all free from insects. Only do not try to do it all at once. The doctor gives us medicine to take a little at a time and thereby helps us to get well, whereas if it was taken all in one dose it would no doubt kill us then and there. Apply this same principle when spraying or fumigating the houses. A weak spray applied last thing at night followed by a syringe the next day, and another spray right after syringing while the plants are still wet, will go a good ways to rid the plants of all insects. However it is best not to wait until the plants become infested, but spray or fumigate regularly every so often, and by doing this no greenfly will ever get a chance. This constant war on the pest will help keep red spider out, too. Although the spray has to be made quite strong to kill spider a weaker one is very distasteful indeed, and more congenial quarters are usually sought by Mr. Spider and his kin.

Commercial Fertilizers

Do not be in too much of a hurry to feed the plants, especially with highly concentrated chemical fertilizers. This may be all good and well later, when the supply of plant food in the bench soil has been practically exhausted, but at present it is much better to let the plants find all nourishment in the soil. This will not only insure sturdy growth, but will insure well rooted plants as well, for if the plants find all they require right within easy reach, the roots will not spread far and near to reach the necessary food, etc. We had a good proof of this one time when two houses were torn out for replanting. One bench of Beauties was found to have hardly any roots at all, for it had been given too much water, etc., and the plants in the second house were rooted right down to the bench boards, so that often a board would lift with the plant. Of course the boards were not fastened in the least. To go further we found that in the latter house two and almost three roses were cut for every one of the roses cut in the first house, because of proper care and treatment which meant good roots, and good roots mean cut flowers good and plenty.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Late Vinery

The late vinery will be the chief consideration amongst the grapes from now on until Christmas. The earlier one will be either finished or have ripe fruit waiting to be cut, which is easy from a growers' point of view. In the late house the berries will be swelling fast, demanding all the care possible in anticipation of the best crops. Keep the border watered well and also give the roots plenty of feed. If a mulch is already on the border give it some clear water first, then dust on the manure and water it in. Artificial manures are all right for vines but if good liquid manure-water can be had from the farmyard there is nothing to beat it. Keep all sub-laterals pinched out and at the same time keep a sharp lookout for the numerous pests that are liable to make an appearance, chief of which is red spider. The late house will be more susceptible to spider than the previous ones as the hot weather during its growing season necessitates open ventilators, making the air drier than the earlier houses would be at the same stage, with perhaps only half the air on. When spider is discovered lose no time in having the foliage sponged with clear soft water. Some gardeners may prefer to syringe, or spray with insecticides, but once seeing a fine lot of Gros Colmans marked on every berry through this method of eradicating spider I prefer to take the longer and safer course.

Care of Strawberries

Strawberries that were potted up some two weeks or more ago and placed pot-thick to husband the moisture will now need going through. First remove any rhizomes (or runners) the plants are making, also any bad foliage they may have. Follow this up by pricking up the surface soil with a pointed stick or label, not deeply, just enough to break the hard crust that has formed restricting the free passage of air to the roots. After this the pots should be spaced, giving the foliage plenty of room to develop. Do not, however, overdo this or the pots will dry out very quickly. See that all pots are stood level on a bed of ashes which will always make them clean on the bottom and the weeds will not grow so easily as they would on bare soil. During the hottest part of the day we find a shading of one thickness of cheese-cloth beneficial to the plants. After the pots are nicely filled with roots some weak soot-water twice a week will help them.

Melons in the Frames

If the plants growing in cold frames show any signs of starvation soon after the fruit is set feed them, but do not overdo it if they have a quantity of soil to grow into or some of the fruits will crack later on. The quantity of soil they are growing in is a thing that has to be reckoned with right from the start and the longer they are growing the greater part it plays. With no restriction to the roots, sometimes we find no limit to the size of the fruit, which excels itself and bursts, or cracks open about the time it should start to ripen. Water very carefully as the ripening stage approaches. Opinions differ as to whether the fruits should be left in their natural position on the soil or raised on inverted pots. With the same subjects growing in a house the fruits are suspended beneath the foliage which affords shading. By raising them on the pots they are above the foliage and exposed to the full sun which must in some degree make them harder and be a detriment to their swelling, which brings me to the conclusion that they are best left with the natural shading of their own foliage. A piece of wood about an inch thick, to allow a groove to be put into it, will keep the fruits off the soil and give them a better appearance for the table. The groove in the wood is to allow the moisture to drain away.

Tomatoes

It may seem early to talk about sowing tomatoes for winter work, but there is always a possibility of an early frost and the tomatoes are one of the first things to go under. In those districts where early frosts are frequent a sowing now will have ripe fruit in time to keep up a continuous supply. These can be grown in pots, until a later sowing comes into bearing and then be done away with, thus not utilizing any of the regular bench room devoted to them. A six-inch pot will furnish about three hundred plants.

BRITISH HORTICULTURE.

Sweet Pea Show.

The National Sweet Pea Society held an excellent show in London, on July 17th. The cup presented by W. Atlee Burpee, of Philadelphia, was awarded to F. A. Wellesley, Westfield, Woking. In the trade section a fine display was made by Dobbie & Co., who received a gold medal. The varieties included: New Marquis, mauve; Thomas Stevenson, orange scarlet; Mrs. Heslington, lavender; Duplex, semi-double cream pink; King White; Lady Miller, apricot tint on cream ground; Inspector, semi-double orange salmon; Lavender George Herbert, bluish lavender; Edrom Beauty, orange salmon; and others. Robert Bolton also received a gold medal for a well-arranged group. W. J. Unwin, of Histon, was another successful exhibitor. Four novelties were exhibited on the stand of Bertrand W. Deal. These were: Sincerity, deep cerise; Delight, carmine rose; Annie Sculpher, salmon cerise; and Brooklands Queen, salmon shading on soft rose.

Sweet Pea Trials.

The awards in the trials of sweet peas organized by the International Committee have lately been published. Awards were made to: Walter P. Wright, light lavender, and Leslie Imber, blue, from W. J. Unwin, Histon, Cambs.; Deal's 226, provisionally named May Morgan, from B. W. Deal, Brooklands, Kelvedon; R. F. Felton, lavender, and Red Chief Improved, red maroon; R. Bolton, Warton, Carnforth; Seedling C., provisionally named Mrs. G. L. Hutt, from G. L. Hutt; Hercules, large pink, and Florence Wright Spencer, from G. Stark & Son, Ryburgh, Norfolk. Silver medals were given to Edna May Improved, and Walter P. Wright; the gold medal was withheld, as the committee did not consider that there was any novelty of outstanding excellence to which it could be awarded.

W. H. Adsett.

HORTICULTURE

VOL. XVIII AUGUST 2, 1913 NO. 5

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Glimpse of Ten Thousand Crotons in one of Robert Craig Company's Houses.

NOTES ON CULTURE OF FLORISTS' STOCK—Cattleyas — Care of Smilax — Mulching and Feeding Chrysanthemums—Poinsettias in Pans—Propagating Crotons—Repairing Heating Apparatus—*John J. M. Farrell* 133

ROSE GROWING UNDER GLASS—A Contrast—Mildew—Black Spot on Beauties—Lime—Liming the Benches—Greenfly—Commercial Fertilizers—*Arthur Ruzicka* 134

FRUIT AND VEGETABLES UNDER GLASS—Care of Late Vinery—Care of Strawberries—Melons in the Frames—Tomatoes—*George H. Penson*..... 135

BRITISH HORTICULTURE—*W. H. Adsett*..... 135

DENDROBIUM THYRSIFLORUM—*M. J. Pope*, Illustrated 137

WALTER MOTT'S NOTES BY THE WAY..... 137

CLUBS AND SOCIETIES—Society of American Florists—Boston to Minneapolis—Philadelphia to Minneapolis—St. Louis Florist Club—American Rose Society—American Carnation Society..... 138

Rhole Island-Greystone Sweet Pea Exhibition—Club and Society Notes..... 139

THE HORSE CHESTNUTS—Bulletin No. 41 of the Arnold Arboretum..... 139

NEW AZALEAS SHOWN AT GHENT..... 140

SEED TRADE..... 144

OBITUARY—Robert Sydenham..... 144

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures—New Flower Stores..... 146

Flowers by Telegraph..... 147

The Large Design..... 148

FLOWER MARKET REPORTS:

Boston—Chicago—Cincinnati—New York — Philadelphia—St. Louis..... 151

DURING RECESS—Fun at Detroit—Notes..... 153

MISCELLANEOUS:

Control of Two Elm Tree Pests..... 140

Kroeschell Heaters for London..... 143

Patents Granted..... 143

Incorporated—Catalogues Received..... 144

Another New Lily..... 144

Cincinnati Notes..... 147

News Notes..... 147

Chicago Notes—Philadelphia Notes..... 148

Personal 149

Popular Refrigerators, Illustrated..... 149

Publications Received..... 158

Greenhouses Building or Contemplated..... 158

Reckless credit-giving

Notwithstanding all that has been said and all that has been written in recent years urging the need of more caution in extending credit in the flower business there seems to be no diminution in the number of preposterous business failures. The latest is a Chicago firm, scheduling liabilities of $2,300, and assets amounting to $6! No need of any lengthy argument to elucidate what such a statement means in the way of lax credit giving. The old-time system of asking for payment of accounts once in six months so long prevalent among the retail florists in dealing with fashionable customers, and extended sometimes to even a year by the bulb dealers who were willing to wait for their money until the bulbs had been flowered and the product disposed of, dies a slow death. Whatever progress is made towards more prompt settlements in any department of the business makes it easier for all to follow suit and helps all around. Short-time debtors make long-time friends.

Parcel post menaced

We are in receipt of a letter from Congressman David J. Lewis of Maryland, the parcel post expert, sounding a note of warning over what seems to be very like the first serious effort of the express companies to destroy the parcel post. Mr. Lewis declares that should the "administrative powers" clause of the parcel post law be stricken out as is threatened the vital force of the parcel post will be killed and the hard work of forty years lost. He asks that letters and telegrams be sent to senators and congressmen, demanding that the law be let alone and the service of the parcel post expanded and cheapened as the postmaster general may find it needful and feasible. We were pleased, as no doubt the majority of our readers were, when the announcement was made that a larger limit of weight and a lower rate of postage would go into effect August 15. This announcement, it seems, has stirred up the express and railroad interests. The American people, however, have had their fill of express domination and we do not believe they are in the temper to submit to any interference with what has been so laboriously secured. "Hands off."

Floral art in the flower show

It is generally acknowledged, we believe, that a larger participation by the retail florists in the public flower shows would be most desirable for many reasons and would add much to the public interest in these affairs. The difficulty of getting this element to exhibit is well known and has been frequently commented upon in these columns and elsewhere. As we have before remarked the competitive idea is undoubtedly the great stumbling block. One can hardly blame the florists either, for the prestige placed in jeopardy when a decorator of wide repute enters a competition of this character is a matter of much more serious import to him than the chances taken by plant or flower growers in their competitions can ever be. The only possible way we can see by which the retail florists can ever be induced to enter enthusiastically into the flower exhibitions is to do away with all competitions on tables, mantles and the like in the commercial classes and assign booths to all retailers who will accept same and agree to display examples of their flower work as has been done so successfully at several of the large exhibitions in Chicago. We hope the management of the International Flower Show will find it feasible to give this plan a practical tryout at New York next spring.

Dendrobium thyrsiflorum



Grower Donald McKenzie, Chestnut Hill, Mass.

The subject of the illustration is one of the best species of the beautiful and variable genus Dendrobium. Its large trusses of white and orange flowers are produced freely from the two-year-old and older pseudo-bulbs and a well-flowered specimen forms a lovely picture. There are several other species closely allied to the foregoing and all are well worth growing. D. Farmeri comes perhaps the nearest to it and it is hard to say which of the two is the more beautiful. In this species the sepals and petals vary from pure white to the most delicate shade of pink and rose; the lip is orange as in D. thyrsiflorum. It is easily distinguished from the former by its four-angled dark green, pseudo-bulbs. D. densiflorum has the whole of the flowers orange with the lip a shade darker than the sepals and petals and the flowers are set closer together than in the two foregoing species. The pseudo-bulbs are shorter and stouter than in D. thyrsiflorum.

All three are natives of hot climates (India) and therefore require lots of heat and moisture during their growing season, which begins soon after the flowers have faded in late spring or early summer. They will be found to do their best suspended from the roof of the warmest house obtainable from the time they start to grow until the new bulbs are completed, during which time they should be slightly shaded and not be allowed to get dry for any length of time. As the new growths reach maturity, an occasional dip in weak liquid manure water will be of benefit to them. This can be kept up until the new pseudo-bulbs are fully developed, when the plants may be removed to cooler quarters and gradually exposed to full sunshine in order to ripen the new growth. The amount of water, both at the roots and in the atmosphere, should also be reduced at this time and during the winter and up to the time when the buds begin to push forth, very little water should be given.

The plants can be potted in good osmunda fibre to which a little live sphagnum moss can be added. Pot rather firm in pans, baskets or, better still, common flower pots with three holes to permit suspending. Give ample drainage to allow the water to pass off quickly; the water should run through the compost as it would through a sieve. This applies to all orchids; no orchid thrives good in a compost which retains the water for any length of time.

M. J. Kope

Naugatuck, Conn.

Walter Mott's Notes by the Way

Providence, R. I.

The new seed store of the W. E. Barrett Co. was completed in time for the season's business which was even better than the year previous. Mr. Fisk, the manager, who has been many years connected with the house, will now take a short vacation.

Willis N. Pino reports a big call for insecticides following the seed business, which averages up equal to former years. He predicts a fairly good general harvest of stock seed at steady prices. The first shipment of Lilium Harrissii are in; bulbs are plump and of average size. Manager H. C. Neubrand is on a vacation in the White Mountains.

Jas. Budlong Sons Co. are shipping a heavy late crop of tomatoes, which have given place to chrysanthemums. First shipments from new crops of roses show stock to be in fine condition.

On the way to Newport is Carl Jurgens' big field of lily of the valley; it is an unusual sight and attracts considerable notice. At the houses they are throwing out a crop preparatory for a new one. The new rose houses are producing well. Beauties are the chief variety grown and they give promise of heavy crops from now on.

Cambridge, Mass.

F. C. Becker has his houses planted with Nephrolepis Bostoniensis, more stock than usual. It is notable, in passing, that while every grower seems to add more space each year for this popular fern, there are not enough young plants to go halfway around.

Jno. McKenzie is a strong admirer of Nephrolepis Roosevelt; its sturdy habit and graceful appearance makes it very popular.

New Haven, Conn.

The Doolittle Floral Co., who took over the floral section of the Platt Co., are increasing their store space with the intention of adding a full line of insecticides next season.

Springfield, Mass.

Wm. Schlatter & Son have long since adopted the plan of keeping the extra help employed through the summer in going over the houses, so that they are in excellent condition and ready for replanting in due season. They notice a considerable increase in local trade of late.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Arrangements have been made with Skellet Company, 201 South Fifth street, Minneapolis, Minn., to do the hauling of freight at the time of the Convention. The rate will be 50 cents minimum from depot to Armory, and 10 cents per hundred. Freight arriving before the Convention will be stored by them free of charge. It will avoid a great deal of trouble if the shipments are billed direct to the Skellet Company, or, at least, in care of the Skellet Company. If you have not already done so you should let me know about signs, whether you wish benches erected, etc. Benches will cost you about 6 cents per square foot. If you wish benches or tables covered with green burlap, it will cost 10 cents per yard laid. Roll-top desks with chairs may be hired for the four days of the Convention at a cost of $5.00. It will avoid delays and confusion if you would give these matters your immediate attention.

Following is a complete list of those who have taken space in the Outdoor Planting Exhibition:

Thomas Meehan & Sons, Dresher, Pa.; C. N. Ruedlinger, Minneapolis, Minn.; R. & J. Farquhar & Co., Boston, Mass.; Henry A. Dreer, Inc., Philadelphia, Pa.; Rosehill Nursery, Minneapolis, Minn.; W. A. Manda, South Orange, N. J., Holm & Olson, St. Paul, Minn.; John Lewis Childs, Flowerfield, N. Y.; A. T. Boddington, New York, N. Y.; Arthur Cowee, Berlin, N. Y.; Vaughan's Seed Store, Chicago, Ill.; Northrup, King & Co., Minneapolis, Minn.; Conard & Jones Co., West Grove, Pa.; Henry F. Michell Co., Philadelphia, Pa.; William Tricker, Arlington, N. J.; R. Vincent, Jr., & Sons Co., White Marsh, Md.; C. Malmquist, Minneapolis, Minn.; F. H. DeWitt & Co., Wooster, Ohio; A. Henderson & Co., Chicago, Ill.; C. A. Schaefer, La Crosse, Wis.; Max Kaiser, Merriam Park, Minn.; Nagel Greenhouses, Minneapolis, Minn.; L. S. Donaldson & Co., Minneapolis, Minn.; H. B. Whitted, Minneapolis, Minn.; Will Bros., Minneapolis, Minn.; Erie Floral Co., Erie, Pa.; Wm. F. Kasting Co., Buffalo, N. Y.; E. F. Winterson Co., Chicago, Ill.; L. L. May Co., St. Paul, Minn.; Lakewood Cemetery Greenhouses, Minneapolis, Minn.; Minneapolis Floral Co., Minneapolis, Minn.

The following are additional names to the list of indoor trade exhibitors:

Schloss Bros., New York; G. E. Travis Co., Henry, Ill.; J. F. Wilcox & Sons, Council Bluffs, Ia.; Peirce Bros. Co., Waltham, Mass.; E. B. Stackhouse, Waretown, N. J.; Wertheimer Bros., New York; Holton & Hunkel, Milwaukee; Minnesota Weatherproof & Glazing Co., Minneapolis, Minn.; Hummel & Downing Co., Milwaukee, Wis.

JOHN YOUNG,
Superintendent Trade Exhibition.

BOSTON TO MINNEAPOLIS.

But two weeks away and Minneapolis will be the Mecca for many florists and horticulturists and from present indications it will be one of the best conventions in the history of the Society. Massachusetts will be represented and that worthily by those who have already signified their intention of taking the trip, but the number is all too few under the circumstances. Taking into consideration the beauty of the trip and the excellent arrangements made for the comfort and pleasure of those who will go must be added the fact that there are two other very important reasons for a large delegation from this vicinity. We have the honor of a Massachusetts man as President of the Society and furthermore it is hoped that Boston will have the convention in 1914, which the delegation is going to work for, re-enforced by a special representative from the city government who will carry an invitation from the city of Boston. Up to the present time about twenty-five have signified their intention of joining the special party, but it is hoped that the party will number at least fifty. Undoubtedly, there are many more who will attend, but it is absolutely necessary that the committee should be informed, not only to make berth arrangements but for hotel accommodations in Minneapolis. August 8th is the very latest possible date that this can be done. The tour will be personally conducted and everything possible will be done by the committee for the comfort and convenience of those going. Train leaves the North Station at 8 P. M., Friday, August 15. Saturday will be spent in Montreal on special invitation. Write at once to the Chairman of the Committee, W. P. Edgar, 5 Park Square, Boston, or to Horticultural Hall, for all particulars or of your intentions.

W. P. EDGAR.
Vice-President for Eastern Massachusetts.

PHILADELPHIA TO MINNEAPOLIS.

The Florists' Club of Philadelphia's Minneapolis Convention party, Chairman John Westcott, announces that they will leave Broad street station, Pennsylvania R. R., on the 10.25 A. M. train, Sunday, August 17th. Any one wishing to join the party should communicate at once either with the chairman, Mr. Westcott, or with the secretary of the club, David Rust, at Horticultural Hall, Broad and Locust street, as there may be a saving—according to the number in the party. Act at once on this and be sure to advise one or other of these gentlemen before buying your ticket.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club committee of twenty-five met with Manager Frank Robinson of the Coliseum Flower Show on Tuesday, July 25, to devise some plans to raise $2,000 for prizes for the down-town stores for window decorations for Flower Show Week. A subscription started at once and $700 was raised by those present and the committee will raise the other $1,300 by August 15th. The members enjoyed a pleasant evening and at the close refreshments were served by Mr. Robinson.

The Florist Club meeting will be held on Thursday, August 7th, one week ahead of the regular meeting day. Election of officers, convention and Flower Show matters will be the features of the meeting.

AMERICAN ROSE SOCIETY.

The American Rose Society will hold its summer meeting during the coming annual convention of the Society of American Florists at Minneapolis. At this gathering the new president assumes control and direction of the Rose Society's interests.

Roland D. Gamwell, of Bellingham, Wash., who has been visiting East, showed great interest in the spread of the American Rose Society's work. One point he made was that the rose plant growers of this country do not realize their advantage in the work of the American Rose Society in creating a widespread interest all over the land in rose bushes for home planting.

The directors of the Panama Exposition at San Francisco, to be held in 1915, are awake to the fact that the rose grows on the Pacific Slope to a degree of profusion perhaps not equalled elsewhere. A prize of $1,000 is offered for a new rose. The division of Horticulture of the Exposition wish to have emphasized the effort which is to be made to bring about the most extensive show of roses in all phases during the time of the exhibition, and to do this the interest of rosarians the world over is invited.

The certificates of merit awarded at the Hartford Test Garden examination have been sent out. This Hartford Rose Garden Show seems to have exercised considerable quiet interest in its results. Superintendent Parker of Hartford ascribes very high praise to Theodore Wirth, now Superintendent of Parks at Minneapolis, for the work in planning the garden at Hartford. At Minneapolis the American Rose Society asks for a large attendance of its members, and would be glad to receive many new members. "A Rose for every Home, a Bush for every Garden." The new president is Wallace R. Pierson, of Cromwell, Conn.; the new vice-president is Robert Pyle, of West Grove, Pa.; the new members of the executive committee are J. H. Dunlop, Toronto, Ont., Canada, and S. S. Pennock, Philadelphia, Pa.

BENJAMIN HAMMOND, Sec'y.
Fiskill-on-Hudson, N. Y.

AMERICAN CARNATION SOCIETY.

Members of the American Carnation Society will please make the following corrections in the annual report recently mailed out from this office:

Add Chas. B. Critchell to the list of contributors toward the Fred Dorner Memorial Fund.

In the list of registrations of new varieties, H. W. Field's address should be Northampton, Mass.

The name of the variety Pacific, registered by R. Diener & Co., has been changed to Debutante.

The address of J. A. B. Haugh should be Anderson, Ind., instead of Indianapolis, Ind.

The address of E. L. Graves should be Northampton, Mass., instead of Holyoke, Mass.

The name of the variety, Magnificence, registered in last year's report,

has been changed to Philadelphia Pink.

Kindly make these corrections, in order that you have have an accurate record when referring to the report in the future.

The following two registrations were received since the publication of the report:

Alice Coombs.—Parentage two unknown seedlings. Color pink, shade between Winona and Gloriosa. Size. 3½ to 4 inches. Long stiff stem with good upright growth and a free bloomer.—By A. Roper, Tewksbury, Mass.

Eureka.—Parentage Beacon X Scarlet seedling from R. Craig. Color scarlet. Size, 2½ to 3 inches. Growth like Beacon, but very free and does not burst more than two per cent. The freest bloomer in commerce.—By L. C. Midgley, Westboro, Mass.

A. F. J. Baur, Secretary.

RHODE ISLAND-GREYSTONE SWEET PEA EXHIBITION.

The first joint exhibition of sweet peas by the Rhode Island and Greystone Horticultural Societies, held in the Methodist-Episcopal Church parlors, Providence, R. I., July 19, was a complete success. Miss Isabella H. Miller of Bustin's Island, Me., made a clean sweep in five classes, shown in vases without competition. Thomas Brooks, of Providence, excelled in keen competition in other classes of peas, winning four firsts and one second in seven classes.

Primarily, it was a pea exhibit; however, there were many other things shown. A notable part of the show was non-competitive exhibits from Newport. One was from the garden of Miss Fannie Foster, at Ridgemere, where C. M. Bugholt is the gardener, and the other from the gardens of Mrs. W. B. Leeds at Rough Point, of which William Gray is the gardener.

Burke & Burns, Providence, made a large display of greenhouse roses. Other displays included peas by the Malvern Farm, Bar Harbor, Me., palms, by William H. Appleton; ornamental plants, by T. J. Johnston & Co., Providence; ferns and tuberous begonias, by John F. Wood. The display of gladioli by John Lewis Childs of Flowerfield, L. I., was said to be the best display ever made in New England. Herbaceous plants were shown by the following: Roger Williams Park, Fred C. Green, superintendent; B. A. Jackson, Frank L. Gay, Mrs. E. Orsborne; Scotch heather, John Marshall; "Harry Kirk" rose, Mrs. W. A. Clissold. Plans were made at this meeting for the annual dahlia exhibition to be held in September.

The committee in charge of the sweet pea exhibit included E. K. Thomas (chairman), State College, Kingston; Joshua Vose, Pontiac; Arthur Sellew, Providence; F. T. Jenckes, West Barrington; Prof. John E. Hill, Arthur C. Miller and President Thomas Hope, ex-officio, all of Providence.

CLUB AND SOCIETY NOTES.

The St. Louis County Growers' Association will hold their regular monthly meeting, August 6th, at 8 P. M.

The annual meeting of the Association of American Cemetery Superintendents will be held at Buffalo, N. Y., on September 17, 18 and 19. Headquarters will be at the Hotel Statler. There will be a trip to Niagara Falls on the third day.

The American Association of Park Superintendents will have their annual convention in Denver, Colo., on August 25, 26 and 27. The meeting will be almost entirely devoted to outdoor demonstrative work. A good list of speakers has been arranged for the occasion.

THE HORSECHESTNUTS.

From Bulletin No. 41 of the Arnold Arboretum, Boston.

The Horsechestnut (*Aesculus Hippocastanum*) growing naturally in a restricted area has the power of flourishing and reproducing itself in regions with climates as unlike as those of eastern New England and western Scotland. The home of this tree among the mountains of northern Greece is of such limited extent that, although the Horsechestnut has been cultivated in Europe for more than three centuries, it is only in comparatively recent years that the wild tree has been discovered. The Grecian Horsechestnut is one of the noblest of the exotic trees cultivated in the United States, but for the development of its greatest beauty it requires deep, rich, moist soil and abundant space for the spread of its branches. Few other trees suffer more from smoke, dust, and the other unnatural conditions of city life. There are a number of forms in cultivation but none of them equals the typical tree in beauty. One of the best known of these abnormal forms is the variety with double flowers (var. *Baumannii, flore pleno*). This form flowers later than the single-flowered tree and the flowers last a long time in good condition. There are varieties with erect branches (var. *pyramidalis*) and with erect and spreading branches forming a round-topped tree (var. *umbraculifera*); and there are varieties with variously incised leaflets (var. *incisa* and var. *laciniata*), and with leaves blotched with yellow (var. *variegata*), but these are all horticultural curiosities and of no interest to the general planter.

The so-called red-flowered Horsechestnut, which appeared in Europe many years ago, although its origin is not entirely clear, is probably a hybrid of the common Horsechestnut with the red-flowered *A. Pavia* of the southeastern United States. The right name of this tree is *A. carnea*, although it is often found in nurseries under the name of *A. rubicunda*. It has the general habit and appearance of the common Horsechestnut, but it is a smaller tree and blooms later, and the flowers on different individuals vary from red to pale rose color. The handsomest form (var. *Briotii*) has deep red flowers and is one of the most ornamental of the arborescent Horsechestnuts. The Japanese Horsechestnut (*A. turbinata*) is rather closely related to the Grecian tree and resembles it in general appearance, although the flowers are less showy. In its native country this is a large and handsome tree, and it promises to be a valuable ornamental tree here. The largest specimen in the United States is in Rochester, N. Y., where the Japanese Horsechestnut has flowered and produced large crops of seeds for several years. The Himalayan Horsechestnut, the species from central China discovered by Wilson, and the California species are not hardy here, and the north China Horsechestnut is not yet established in the Arboretum.

Southeastern North America is the real home of the Horsechestnuts, judging by the multiplication of species in that part of the world where a number of interesting and valuable new forms have recently been discovered. The earliest of the American species to flower is the so-called Ohio Buckeye, *A. glabra*. This is a small tree with pale yellow flowers, fruit like that of the Grecian tree covered with prickles and dark bark exfoliating in thin flakes. A form of this tree with usually seven instead of five leaflets (var. *Buckleyi*) is not otherwise different from the common form. Another form of this tree (var. *leucodermis*) from southern Missouri and Arkansas, with pale bark, blooms about two weeks later than the type.

The other yellow-flowered arborescent Horsechestnut of the eastern states (*A. octandra*) differs from the Ohio Buckeye in the absence of prickles from the fruit. It is a larger tree, growing sometimes on the slopes of the southern Appalachian Mountains to the height of eighty feet, and blooms a week or ten days later. This is a valuable ornamental tree which is now rarely found in collections. The other arborescent species of the southern states, the red-flowered *A. Pavia*, is not yet established in the Arboretum, although some garden forms of this tree (var. *atrosanguinea* and var. *Whittleyi*), flower here freely.

From a race of hybrids between *A. octandra* and *A. Pavia* some valuable garden plants have been obtained. This hybrid appeared in Paris at the beginning of the last century and the correct name for it is *A. hybrida*, although in recent European publications it is sometimes called *A. versicolor*. The flowers are of different shades of red, and individuals differ in foliage, in the size and color of the flowers, and in their time of opening. Of recently described species from the southeastern states only *A. georgiana* from central Georgia will flower this year. This is a broad, round-topped shrub, growing sometimes to the height of five or six feet, with large red and yellow flowers in long compact clusters, and a plant of much promise as a garden ornament. *A. parviflora* is the last of the Horsechestnuts to flower and its tall narrow spikes of white flowers do not open before midsummer. In the Arboretum are beds of young plants of the yellow-flowered *A. arguta*, a small shrub from eastern Texas, and of the beautiful red-flowered shrub or small tree from the southern and southwestern states usually called *A. austrina*. Much attention has been paid to the formation of the Arboretum collection of Horsechestnuts and it will well repay the attention of persons interested in a beautiful genus of now too little known trees and shrubs well suited for the decoration of northern parks and gardens.

BEAUTIFUL CROTONS

BY THE HUNDRED THOUSAND

Finest Collection in the World! **Over Four Hundred Varieties!**

All in perfect condition — Grown in the clear pure air of Norwood, in the newest and latest Lord & Burnham Conservatories, and by experts who know how.

We offer for immediate delivery, strong plants, assorted varieties.

2½ in. Pots	$20.00 per 100			$175.00 per 1,000	7 in. Pots	$24	$30	$36	per doz.
4 in. Pots	30.00 "			275.00 "	8 in. Pots Made Up, Beautiful Plants	$24	$30	$36	per doz.
5 in. Pots		$50	$75	$100 per 100	10 in. Pots	$5	$6	$7.50	each
6 in. Pots	$12	$15	$18	$24 per doz.	12 and 14 in. Tubs	$10	$12	$15	$20 each

Every grower and retailer should feature Crotons. Send for our descriptive price list, giving full particulars of all the latest new and rare CROTONS, also other

MERITORIOUS NEW PLANTS

We Know Our Stock Will Please You and Your Customers

ROBERT CRAIG CO., MARKET and 49th STS. PHILADELPHIA

BRANCH: NORWOOD, PA.

NEW AZALEAS SHOWN AT GHENT.

Mr. Winfried Roelker, who has just returned from Europe on the S. S. Vaderland, says that the Ghent show was a pronounced success, especially in the azaleas and rhododendrons. For his group exhibits in eighteen sections, August Haerens of Somergem, Belgium, obtained nine first prizes, seven second prizes and one third prize. The following names and descriptions of his group of twelve azalea novelties will interest our readers who grow azaleas.

Winfried Haerens; an early bright Christmas-red flower; a seedling of Ernst Eckhoute × Prof. Wolters.

Brillianta Belgica; a very early bright scarlet; a seedling of Prof. Wolters × Simon Mardner.

Lady Roosevelt; salmon pink; sport of Rudolf Seidel, which sported from Madam Jos. Vervaene, a sport of Perle de Ledeberg.

Miss Elsie Roelker; blush rose, flowering camellia-like and erect; sport of Lady Roosevelt.

Tricorolle; an early crimson red, with three rows of petals; a seedling of Simon Mardner × Hexe.

Easter Greeting; a bright crimson color, and good keeper; a seedling of Camille Vervaene × Hexe.

Christmas Star; a deep blood-red seedling of Postmaster Stephan by some other seedling; better color than that of the parent.

Star of Belgium (Etoile de Belgique); a seedling of unnamed novelties; the color deeper than Postmaster Stephan, the petals pointed, cactus dahlia-like, eight to nine petals to the row in place of five; a very double flower. Will not be ready for the trade until 1915.

Regina Graciosa; very large double white flower; a seedling of Mme. Hermann Seidel (white Kerkhove) with a seedling of Louis Cavelier. Will not be ready for the trade until 1913.

President Alexis Cailler; glossy crimson pink; a seedling of E. Eckhoute × Haerensiana; larger in the flower than Eckhoute. Will be ready this fall.

Susanna; a very early double white; a seedling of Mme. Petrick × Anne Hunkel. Will not be ready for the trade until fall.

Angelinde; a large double white flower of fine shape; is a sister plant to the former, having the same parents; very double but not so early as Susanna. Both are good keepers. Will not be ready for the trade until 1915.

Mr. Roelker says that Lady Roosevelt and Miss Elsie Roelker were also exhibited by the Kuyk firm but under the names of Daybreak and Blushing Bride respectively and that Haerens is now contesting Kuyk's right to so change the names, before the Chambre Syndicale Horticole.

CONTROL OF TWO ELM-TREE PESTS.

(From Bulletin 333, N. Y. State College of Agriculture.)

The elms of the eastern United States are subject to the attacks of two serious insect pests, the imported elm leaf-beetle and the elm leaf-miner. The leaf-beetle attacks both the American and European elms. Many inquiries are received each season regarding these pests and methods of fighting them.

In this bulletin are given the results of two years of work in spraying for the leaf-beetle and the leaf-miner. The types of machines used in spraying large trees are discussed in some detail. Considerable definite data are given also on the cost of spraying large trees. Observations on the life history of the beetle are also included.

It was found that the imported elm-leaf-beetle could be kept under control very satisfactorily by spraying the trees with arsenate of lead at the rate of four or five pounds to fifty gallons of water. Perhaps two sprayings are best during the first year, but one thorough application each season thereafter seems to be sufficient. Large elm trees can be sprayed at a cost of thirty to forty cents per tree for one application.

The elm leaf-miner attacks the European elms by mining out the inner tissues of the leaves. This insect apparently becomes more injurious and widespread each year.

It was discovered that an application of "Black-leaf 40" and soap to the leaves would kill a large majority of the miners if made while the larvae were young. Spraying experiments extending over two seasons show that the "Black-leaf 40" should be used at the rate of one pint to one hundred gallons of water, to which has been added five pounds of ordinary laundry soap or whale-oil soap. The trees should be sprayed just as soon as the mines begin to show and while the larvae are young.

Notes on the life history of the miner are given in the bulletin.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..**BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD.** An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..**BODDINGTON'S CHRISTMAS PINK.** This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..**BODDINGTON'S CHRISTMAS WHITE.** A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..**ANGELINO.** Self pink; new variety	.50	1.50	2.75	4.50
..**CANARY.** Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..**FLAMINGO.** Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..**CHRISTMAS METEOR.** Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..**CHRISTMAS STELLA MORSE.** Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..**FLORENCE DENZER.** Pure white	.25	.75	1.25	2.00
..**LE MARQUIS.** This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..**MISS HELEN M. GOULD.** White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..**MISS JOSEY REILLY.** Lilac very large flowers	.25	.75	1.25	2.00

	Oz.	¼ lb.	½ lb.	Lb.
..**MRS. A. FARENWALD.** Extremely large; dark pink. Very early	$0.75			
.**MRS. E. WILD.** Carmine or dark pink	.25	.75	1.25	2.00
..**MRS. ALEX. WALLACE.** Lavender; very scarce	.25	.75	1.25	2.00
..**MRS. HANNAN.** Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..**MRS. JAMES WHEELER.** Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..**MRS. WM. SIM.** Salmon pink	.25	.75	1.25	2.00
..**MRS. GEO. LEWIS.** Large, pure white, wavy flower	.25	.75	1.25	2.00
..**MRS. W. W. SMALLEY.** Satiny pink	.25	.75	1.25	2.00
..**MRS. F. J. DOLANSKY.** Daylight pink	.25	.75	1.25	2.00
..**MRS. CHAS. H. TOTTY.** Sky blue; late	.25	.75	1.25	2.00
..**MRS. ZVOLANEK.** Blue, variegated; good for variety	.50	1.50	2.75	5.00
..**ORANGE BIRD.** Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..**PINK BEAUTY.** Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..**WALLACEA.** Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..**WATCHUNG.** Pure white	.25	.75	1.25	2.00
..**WINTER CHEER.** Wavy, large white flower	.50	1.50	2.75	4.50
..**WM. J. STEWART.** Blue self	.35	1.00	1.75	3.00
..**ZVOLANEK'S PINK.** Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

We Offer for IMMEDIATE SALE

Surplus Stock of Pink and White Killarney, also Richmond

3-inch pots; extra fine, clean plants, at $6.00 per 100, $45.00 per 1,000.

ALSO A FEW THOUSAND PLANTS OF EXTRA FINE . . . . . GARDENIAS

Very strong, best blooming varieties at $12.00 per 100, or $75.00 per 1,000.

All of the above is extra fine stock. *Prompt shipment on receipt of order.*

GUDE BROS. CO., 1214 F STREET WASHINGTON, D. C.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

	Per Hundred
American Beauty, 4 in.,	$12.00
Hillingdon, 4 in. . .	10.00
Sunburst, 4 in. . . .	15.00
Pink Killarney, 4 in. .	8.00
500 Radiance, 3 in. .	8.00

CHAS. H. TOTTY

MADISON, N. J.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

FRAMINGHAM NURSERIES

SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK

W. B. WHITTIER & CO.,

SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights P. O. No. 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

Kennett Square, Pa., July 26, 1913.
My Dear Sir:—Kindly discontinue my Snapdragon adv., as we are completely sold out. Very truly, Wm. Swayne.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann

Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

KROESCHELL HEATERS FOR LONDON.

Two No. 14 Kroeschell Boilers are now under construction at the works of the Kroeschell Bros. Co. at Chicago, and which are to be used for the new central hot water heating system (forced circulation) for Lowe & Shawyer, Uxbridge, London, Middlesex, England. Each boiler measures 60 inches in width, 50 inches in height, and 16 feet in length. These boilers will be constructed complete at the Kroeschell factory, and when finished will be loaded on board freight cars to begin their long journey from Chicago to London. The cars will be placed alongside of the ocean steamer and loaded direct.

The shipping weight of Kroeschell's No. 14 is in the neighborhood of 14,000 pounds, and it will be interesting to learn that the freight on these boilers from Chicago to London is less than the freight charges from Chicago to the Pacific Coast.

The capacity of a No. 14 Kroeschell is 12,000 lineal feet of four-inch pipe in addition to the mains. The immense glass capacity of these boilers can be grasped by their rating converted in 1¼-inch pipe, of which a No. 14 Kroeschell will heat 5¼ miles of this size pipe for hot water heating if placed from end to end.

PATENTS GRANTED.

1,068,287. Greenhouse Glazing. Frank Van Assche, Jersey City, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 &29 OCEAN ST., ∴ BEVERLY, MASS.

PHOSPHORUS

A seven-inch potfull of Davidge's Special Phosphorus mixed with a wheelbarrow of soil when planting or potting; then, when roots are established, a small pailful scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag (200 lbs.) $5.00. Over 500 lbs., at the rate of $40.00 per ton.
WILLIAM M. DAVIDGE,
P. O. Box 5. - - Brooklyn, N. Y.

Horse Stable Manure

NATURALLY ROTTED DRIED AND GROUND

HIGH GRADE, IMMEDIATE, NUTRITIOUS and LASTING. CONVENIENT and COMPACT

An odorless natural Manure for use of Florists, Landscape Gardeners, Truck Growers and Farmers, and for general Farming purposes.

For mixing with soil for Potted Plants; for Field Crops; for Grass and Lawns, and for Vegetable Gardens, promoting rapid, steady growth.

PUT UP IN BAGS, 100 LBS. EACH

Descriptive Folder and Prices upon application.

—SOLD BY—

NEW YORK STABLE MANURE CO.
273 Washington Street, JERSEY CITY, N. J.

Aphine
The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE
For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE
For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE
For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana
Twelve percent Nicotine
SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon KIL-WORM makes 50 gallons liquid when mixed with water.

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL-WEED diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to
B. HAMMOND, - Fishkill-on-Hudson, New York.

When writing to Advertisers kindly mention Horticulture

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Malvern, Iowa—A. R. Hamlin of Red Oak has purchased the seed business of John F. Summers.

Cambridge, N. Y.—At the annual meeting of the stockholders of the J. B. Rice Seed Company last week, the following directors were chosen: Mrs. Laura Rice, J. B. Rice, Jr., C. E. Smith, J. L. Hunt and H. S. Hoard. The directors elected the following officers: President, J. B. Rice, Jr.; vice-president and treasurer, C. E. Smith; secretary, John L. Hunt; auditor, H. S. Hoard.

Obituary

Robert Sydenham.

The announcement of the passing away of Robert Sydenham, of Birmingham, England, is received with sorrow by his many friends in the United States. His was a most unique personality and he had warm friends everywhere all over the world. He had many enthusiasms in succession during his horticultural career, the latest and perhaps the most ardent being the sweet pea. Among others in the sweet pea field he was a warm, personal friend of W. Atlee Burpee, who is at present visiting in England and to whom this loss will be particularly sad. Mr. Sydenham died on Saturday, July 19.

INCORPORATED.

Cincinnati, Ohio—J. Chas. McCullough Seed Company; capital stock, $150,000.

Plymouth, Mass.—Old Colony Nurseries; capital stock, $6,000. Incorporators, T. R. Watson, John W. Leonard, Jr., and E. W. Watson.

Cleveland, Ohio—The James Fadie Company, flowers, plants and nursery stock. Capital stock $10,000. Incorporators, M. C. Maher, V. J. Free, H. B. Wright and R. L. Toben.

ANOTHER NEW LILY.

Lilium Sargentiae, a gem among the Chinese introductions by E. H. Wilson has been blooming gorgeously at the Farquhar nurseries in Roslindale, Mass., during the past two weeks, being about a fortnight later than myriophyllum. The garden committee and plant and flower committee of the Massachusetts Horticultural Society visited the nurseries to inspect this new comer, on Thursday, July 24, and were much impressed with its effectiveness in garden work. It is perfectly hardy. We shall have something further to say about it later on.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

TRIUMPH OF THE GIANTS MIXED

Robust grower; flowers of extra large size; many beautiful, rich and rare shades. Half trade pkt., 60c.; trade pkt., $1.00; $1.75 per ¼ oz.; per oz., $6.00.

	Tr. pkt.	Oz.
Bugnot, Odier and Cassier	$0.50	$4.00
Giant Trimardeau. Mixed	.30	1.25
Mad. Perret	.50	2.50
Masterpiece	.50	4.00
Odier or Blotched	.50	3.00
Parisian Large Stained	.40	2.00
Finest English Mixed	.25	1.00

GIANT PRIZE PANSIES

In Separate Colors

Please do not compare these with the ordinary Giant Trimardeau; the seed we offer will produce flowers of much heavier texture.

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

Also all other Seasonable Seeds and Supplies for the Florist. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market Street Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Removal Notice

On and after September 1, 1913 our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.

CELERY PLANTS

Very large plants Winter Queen at $2.00 per 1000.

W. & H. F. EVANS

Rowlandville, Philadelphia

CATALOGUES RECEIVED.

Sluis & Groot, Enkhuizen, Holland.—Folder of Westerwolth's (Giant Italian) Ryegrass.

Wm. Elliott & Sons, New York.—Mid-summer Catalogue of Pot-Grown Strawberry and Vegetable Plants.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

When writing to advertisers kindly mention HORTICULTURE.

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

BRASLAN SEEDS

BRASLAN SEED GROWERS CO., Inc.
SAN JOSE, CALIFORNIA

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

BULBS ARRIVING

LILIUM HARRISII (True Bermuda Easter Lily)

9-11 in., per dozen, $3.75; per 100, $23.00
7- 9 in., per dozen, 1.35; per 100, 8.75

Our stock comes direct from one of the best growers in Bermuda, to whom we pay special prices to secure extra good bulbs. Our stock this year is the best in appearance we have seen in a long time.

Amaryllis Johnsoni .....$2.50 dozen
Amaryllis Vittata Hybrids... 3.50 dozen

Oxalis, Bermuda Buttercup, per 100, $1.00; per 1000, $8.50.

Pansy Seed, Vick's Giant Superb, ⅛ oz., 75c.; ¼ oz., $1.35; 1 oz., $5.00.

WRITE FOR FALL CATALOG.

James Vick's Sons
ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO. FANEUIL HALL SQUARE

WIZARD BRAND
SHEEP MANURE
PULVERIZED
Cattle Manure
Shredded or Pulverized
See Our Trade List.
BOSTON

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants
114 Chambers St., New York

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all the leading varieties of Giant Trimardeau.
Write for Prices.

FREESIA

	100	1000
REFRACTA ALBA:		
⅜ to ½ in. diameter	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
PURITY, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"
33 Barclay St., NEW YORK
T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS
Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Waterbury, Conn.—Saxe & Floto, Bank street.

Springfield, Mass.—Mark Aitken, 484 Main street.

Olivette, Mo.—Anton Bros., 5642 Delmar avenue.

Fargo, No. Dak.—Smedley Floral Co., 69 Broadway.

Phillipsburg, N. J.—Henry H. Schultz, 195 Hudson street.

STEAMER DEPARTURES

Allan.

Corsican, Montreal-Liverpool. Aug. 5
Numidian, Boston-Glasgow... Aug. 8
Sicilian, Montreal-London.... Aug. 10
Virginian, Montreal-Liv'pool. Aug. 12

American.

Philadelphia, N.Y.-S'h'ton.... Aug. 8
New York, N.Y.-S'hampton... Aug. 15

Atlantic Transport.

Minneapolis, N.Y.-London.... Aug. 9
Minnehaha, N.Y.-London..... Aug. 16

Cunard.

Franconia, Boston-Liverpool. Aug. 5
Campania, N.Y.-Liverpool.... Aug. 6
Ascania, Montreal-S'hampton Aug. 9
Caronia, N.Y.-Liverpool..... Aug. 12
Pannonia, N.Y.-Medit'n. .... Aug. 12

French Line.

La Lorraine, N.Y. Havre..... Aug. 7
La Provence, N.Y.-Havre..... Aug. 13

Hamburg-American.

Patricia, N.Y.-Hamburg..... Aug. 9
Imperator, N.Y.-Hamburg.... Aug. 9
Cincinnati, Boston-Hamburg. Aug. 16

Holland-America.

Rotterdam, N.Y. Rotterdam. Aug. 12

Leyland.

Canadian, Boston-Liverpool.. Aug. 9

North German Lloyd.

Kronp'z'n Cecilie, N.Y. B'm'n. Aug. 5
Berlin, New York-Bremen.... Aug. 7
G. Washington, N.Y.-B'm'n.. Aug. 9
K. Wil. der G., N.Y. B'm'n. Aug. 12

Red Star.

Zeeland, New York-Antwerp. Aug. 9
Finland, New York-Antwerp. Aug. 16

White Star.

Baltic, N.Y.-Liverpool..... Aug. 7
Majestic, N.Y.-Southampton.. Aug. 9
Canada, Montreal-Liverpool.. Aug. 9
Cymric, Boston-Liverpool.... Aug. 12
Adriatic, N.Y.-Liverpool..... Aug. 14
Oceanic, N.Y.-Southampton.. Aug. 16
Megantic, Montreal-Liv'pool.. Aug. 16

Beaver Dam, Wis.— A. G. Boomer, 104 North Spring street.

Jamaica Plain, Mass.—Jamaica Floral Co., 707 Centre street, Maurice Rosen, proprietor.

Muncie, Ind.—Miller's Flower Shop, Mrs. A. P. Andrew, proprietor, Main and Walnut streets.

Washington, Pa.—Frank T. Wolf has bought an interest in the Keck Floral Company and the firm name hereafter will be the Keck-Wolf Floral Co. They will remove the greenhouses from West Washington street to Mr. Wolf's land.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN NEW YORK
3 & 5 Greene Ave. Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

CINCINNATI NOTES.

P. J. Olinger is in Chicago with his wife and family.

Ed. Foster and daughter, Catherine, have spent the past week and a half in Chicago.

Julius Baer has been having some very neat arrangements of gladioli in his window displays in the last several weeks.

The following have announced their intention of attending the S. A. F. Convention: Mr. and Mrs. C. E. Critchell and Mr. and Mrs. J. A. Peterson and daughter.

Visitors: C. Ford, with A. Hermann, New York; J. F. Heidegen, Aurora, Ind.; J. P. Kellar, Lexington, Ky.; Hy. Ehrhardt, Sidney, Ohio; and A. Rasmussen, New Albany, Ind.

NEWS NOTES.

New York, N. Y.—The Growers' Cut Flower Company have leased the entire building at 129 West 28th street.

Baton Rouge, La.—Samuel Scheinuk has started in business at 245 Main street as florist and landscape gardener.

Providence, R. I.—Mr. Williams, of Oaklawn, has leased the Reservoir avenue greenhouses formerly operated by Mr. Pierce.

WRITE
RICE
For the Right Kind of
Florists' Supplies
RIBBONS & CHIFFONS
OUR "WILLING HELPER" KATALOG TELLS ABOUT THEM.
M. RICE CO.
1220 Race St., Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls, and Lockport

Of Interest to Retail Florists

THE LARGE DESIGN.

The use of the large funeral design, so much in vogue the past twenty-five years, has been diminishing to such an extent that the average florist of the present day rarely carries any wire frames other than the ordinary run of flat designs that he knows are ready sellers. The reason of the shrinkage in large floral tributes has never been made clear; nor do I think it ever will be. Years ago there were very few funerals without the broken column, gates-a-jar, large arch, open book, etc. While these designs were sometimes attractive they were bulky and cumbersome to handle and very often did not arrive at the house in the same condition as when they left the store, especially on a cold winter day when heavy paper wrappings were necessary to keep the flowers from freezing, because there was no automobile delivery service as we have at the present time.

Today the first suggestion of the salesman seems to be a flat wreath or a spray, never taking the price into consideration, whether it be one dollar or fifty dollars, as these simple designs can be made for any price, the sky being the limit. One reason in my mind for side-tracking the large fancy design seems to be the saving of the wire frame and the time of making, especially when the flowers are wanted in a hurry. Still, the public do not ask to see the large set designs as they did before, but there are a few large designs going around for special occasions such as society and lodge emblems.

Another reason seems plausible for this falling off, but only among the poorer class; that is, the apartments being small, the large designs must be given the proper space on their arrival, so as not to offend the senders. Then comes the expense of extra carriages for the conveyance of the flowers, and this is not always within the means of the deceased one's family; and here is where we must stop trying to figure out the problem.

MR. STOREMAN.

CHICAGO NOTES.

Johnson & Chronis, 47th street and Lake avenue, are re-decorating their store.

A. T. Pyfer and Harry Philpott have returned from a short trip to Mackinaw Island.

H. Hilmen, "The Kenwood Florist," has returned from two weeks at Savannah Lake.

F. Blondeel of Oak Park has about finished the rebuilding of the older section of his range of greenhouses.

O. F. Larson, who has a store at 63rd street and Ashland avenue, will open up another store, August 1st, at 954 West 59th street. Fred Wietterling will be in charge.

F. O. Franzen of Summerdale avenue and Clark street has purchased land and is erecting a store and greenhouse on Clark street, about a half block from present location.



To teach Floriculture in the Public Schools of Chicago is the plan adopted by the School Board of which Peter Reinberg is president. If the proposed plans do not miscarry the Vocational School for Florists will be in operation with the opening of the school year next September.

The present plan is to establish classes in the Nicholas Semi High School and build one or more commercial greenhouses in connection for practical work. The instruction will include a wide range. In fact every branch of the business will be covered and in the most practical way.

PHILADELPHIA NOTES.

G. A. Strohlein, of Dreer's, sailed on the steamship Lapland of the Red Star Line on his usual European business trip on behalf of his firm, July 26th.

Taking time by the forelock and making insurance doubly sure, M. Rice & Co. shipped their exhibits for the Minneapolis Convention, July 19th—a month ahead. Two weeks ought to be ample, but a month is still better.

Visitors: J. J. Cummings, Baltimore, Md.; J. D. Cockcroft, Northport, N. Y.; Mr. Hayman, Hayman Greenhouse Co., Clarksboro, W. Va.



The above advt. is one of a series of paid advts. that Penn the Florist, of Boston, is publishing weekly, alternating in the four florists' papers, to become better acquainted with the florists of the country. These advts. have been published daily in the different Boston papers. Any florist desiring to use same in his home town, may do so without further consent. These advts. have been the means of establishing our present great volume of business.

THE NEW SEASON GOODS

Are beginning to arrive. Now, while you have a little let-up, is the time to look them over. We can send you some bewitching samples if you just speak up. There is money this hot weather especially in the use of Artificial Flowers as Decorative Accessories to Fresh Material. We have Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO., The Florists' Supply House of America **1129 Arch St., Philadelphia, Pa.**

Personal

John R. Fotheringham, representing F. R. Pierson Co., is on a business trip in California.

A. Kakuda, of the Yokohama Nursery Company, New York, sailed for Japan, July 19th.

David Welch, of the firm of Welch Bros., Boston, has returned from his trans-Atlantic trip sunburnt and sturdy.

A. S. Nodine, florist of Mill Plain, Conn., is in Mt. Sinai Hospital, New York, where he was operated on last week. His condition is now favorable.

Edgar W. Bayley, who has been in charge of the Ellenwood greenhouses, Hatboro, Pa., is now manager of the rose section of S. J. Reuter & Son, Westerly, R. I.

Dr. Geo. T. Moore, director of St. Louis Botanical Garden, has been directing a summer course of botany at Wood's Hole, Mass., this summer at the Marine Biological Laboratory.

Ed. Boulter, gardener for H. P. Crowell, Winnetka, and Fred Hinks, gardener for J. K. Lyon, Hubbard's Woods, Ill., sailed July 23rd for a visit to their old home in England.

Detroiters who, so far, have expressed their intention of attending the convention are: Phil Breitmeyer, Fred Breitmeyer and wife, M. Bloy, E. A. Fetters and wife, Thos. Browne, Robert Rahaley, Albert Pochelon, E. A. Scribner and wife.

Prof. E. A. White, the popular head of the floricultural department at Amherst Agricultural College, has accepted a similar position at Cornell as successor to the late Prof. John Craig. Prof. White has worked earnestly and with much devotion at his post in Amherst and leaves the department in excellent shape for his successor, who we understand has not yet been selected.

Boston visitors: H. Huebner, Groton, Mass.; A. F. Faulkner, New York City; Prof. W. H. Wolff, Durham, N. H.

New York visitors: Geo. H. Dicks, representing Cooper, Taber & Co., Ltd., London, England.; Mr. and Mrs. R. C. Kerr, Houston, Tex.

POPULAR REFRIGERATORS.



VIEW IN THE FLOWER STORE OF MRS. L. W. MCCOY, SEATTLE, WASH.
In which McCray Refrigerator has recently been installed.

The McCray Refrigerator Co., of Kendallville, Ind., give us the following list of florists who have purchased McCray Refrigerators in the past nine months. A very creditable list and a most convincing testimonial to the superiority of the McCray manufacture:

Baker, F. A., Utica, N. Y.; Crail, Chas. S., Monessen, Pa.; Kline Floral Co., Lawrence, Kans.; Rosewood Floral Co., Lake Charles, La.; Baker, S. Wm., Binghamton, N. Y.; Franzs, E. E., Galveston, Texas; Peterson, S., Richmond Hill, N. Y.; Patmore Nursery Co., Saskatoon, Sask., Canada; Fleusy & Willet, Baltimore, Md.; Armbrush, Edwin A., Northampton, Mass.; Bissinger, Jno. A., Lansing, Mich.; Goree, Geo. W., Paris, Texas; Majors, C. E., Denison, Texas; Paris Plant & Flower Co., Paris, Texas; State Line Floral Co., Texarkana, Ark.; Worthy, Mrs. C. P., Paris, Texas; De Flong, G. W., Hartford, Conn.; Hillyer, Mrs. T. S., Austin, Texas; Hoffman & Sullivan, St. Paul, Minn.; Holton, E. A., Morristown, N. J.; Kleckner, K. G., Battle Creek, Mich.; McDonald & Steele, Crawfordsville, Ind.; Folley & Son, G. F., Anderson, S. C.; Skinner, Thomas, Mamaroneck, N. Y.; Stevens, Mrs. W. C., Malone, N. Y.; Smith, E. Howard, Hazelton, Pa.; Adachi, Roy M., East Orange, N. J.; Armstrong, Helena, Tampa, Fla.; Hartnett, Miss M. A., Grand Rapids, Mich.; Bates & Co., R. E., Grinnell, Iowa; North Floral Co., Ft. Dodge, Iowa; Graham, James, No. Yakima, Wash.; Patmore Nursery Co., Brandon, Canada; Aldrich Flower Shop, Battle Creek, Mich.; Case, Joseph, Battle Creek, Mich.; Zeek, Jno., Oak Park, Ill.; Grand Floral Co., Grand Jct., Colo.; O'Quinn & Co., J. L., Raleigh, N. C.; Herzog, J. P., Cadillac, Mich.; Desner & Fisher, Saginaw, Mich.; Foreman, J. M., International Falls, Minn.; Gem City Flower Shop, Dayton, Ohio; Bryan & Co., Mrs. H. S., Charlotte, N. C.; Young, J. F., Dayton, Ohio; Grabowski, T. H., Lansing, Mich.; Evans, Arthur W. B., Wilkes-Barre, Pa.; Hudson & Son, Wm., Henryetta, Okla.; Roth, H., Florist, Lafayette, Ind.; Johnson, M. & L., Dayton, Ohio; Loehrer, J., Boone, Iowa; McDowell, Jane, Steubenville, Ohio; Church Floral Co., Albion, Pa.; Heiss Co., Dayton, Ohio; Goldsboro Floral Co., Goldsboro, N. C.; Metz & Bateman, Toledo, Ohio; Walsh, Miss Mary B., Chicago, Ill.; Owosso Floral Co., Owosso, Mich.; McCoy, Mrs. L. W., Seattle, Wash.

C. M. Stark, president of the Stark Bros. Orchard & Nursery Co., at Louisiana, Mo., who was recently adjudged insane by the Probate Court, has asked for a new trial by jury so he could be restored to his property rights, which is said to be nearly $300,000.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

ASTERS, 100, $1.00—$3.00
You will find our stock of excellent quality; plenty to fill all orders.
GLADIOLUS, 100, $3.00—$5.00
Splendid stock; all the best varieties.
BEAUTIES, doz., $1.00—$3.00
SWEET PEAS. 100, $0.75—$1.00
GREEN GALAX, NEW CROP
1000 $1.00, per case, $7.50
The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts.. ***PHILADELPHIA***

To Cut Flower Growers and Retail Florists
IF YOU want to find a market for your product
want a regular or special supply of the product of the best growers
Consult the Advertisements on these Wholesale Flower Pages
The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS
FOR FLORIST'S USE **R** THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI July 28	CHICAGO July 28	BUFFALO July 28	PITTSBURG July 28
Am. Beauty, Fancy and Special	10.00 to 15.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" " Extra	8.00 to 10.00	12.00 to 15.00	10.00 to 12.00	12.00 to 15.00
" " No. 1	6.00 to 8.00	10.00 to 12.00	5.00 to 8.00	6.00 to 10.00
" " Lower Grades	4.00 to 6.00	6.00 to 8.00	2.00 to 3.00	2.00 to 4.00
Killarney, Extra	3.00 to 5.00	6.00 to 8.00	4.00 to 6.00	6.00 to 8.00
" Ordinary	1.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Richmond, Hillingdon, Extra	3.00 to 5.00	6.00 to 8.00	4.00 to 6.00	6.00 to 8.00
" " " Ordinary	1.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Maryland, Ward, Taft, Carnot, Extra	3.00 to 5.00	6.00 to 10.00	..... to	6.00 to 8.00
" " " " Ordinary	1.00 to 3.00	3.00 to 4.00	..... to	3.00 to 4.00
Carnations, Fancy Grade	..... to 1.50	2.00 to 3.00	1.00 to 1.50	1.50 to 2.00
" Ordinary	..... to 1.00	1.00 to 2.00	.50 to 1.00	..... to 1.00
Cattleyas	..... to	.. ... to 50.00	35.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum	8.00 to 10.00	6.00 to 10.00	6.00 to 10.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladioli	2.00 to 5.00	5.00 to 6.00	3.00 to 5.00	3.00 to 6.00
Asters	..... to	..... to	..... to	.75 to 3.00
Daises	..... to .50	.15 to .25	.40 to 1.00	..... to .....
Sweet Peas	... to	.25 to .75	.20 to .50	..... to .....
Gardenias	..... to	..... to	..... to	..... to .....
Adiantum	..... to 1.00	.50 to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax	..... to 12.50	..... to 12.00	..... to 15.00	..... to 15.00
Asparagus Plumous, Strings (100)	25.00 to 35.00	25.00 to 35.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	15.00 to 25.00	35.00 to 50.00	25.00 to 35.00	40.00 to 50.00

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.
WHOLESALE COMMISSION FLORISTS
CONSIGNMENTS SOLICITED
Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.
Phone Main 584. 316 Walnut St., Cincinnati.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, **Boston, Mass.**

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH.

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE

Flower Market Reports

BOSTON

Very quiet this week. Little doing either in local or shipping circles, and stock moves only at low figures. Roses of the summer standard such as Carnot, Taft and Radiance show good quality, but others are very poor. Asters come in freely, although only a few of them—purple and white preferably—reach the required standard of quality. Others sell with difficulty. Beauties are in abundance, but of low grade as to bud even when stem and foliage are all that could be desired. Of carnations there are very few. Gladioli plentiful and getting too common. Sweet peas—lots of them and most of them very inferior.

CHICAGO

With a very short supply and a brisk demand, considering the season of the year, the trade has had a good deal of trouble to supply their wants. Of roses there are but few of fair length and good quality; this is particularly true as to white. In pink, Maryland helps out. Some fair stock of these in limitable quantities is available. Sunburst and Ward may be classed as among the best summer varieties and are in brisk demand. Beauties are scarce and as to quality are nothing to boast of. Peonies are still quite a feature on this market and sell at a good figure, but the coming week will about finish them. Lilies, both longiflorum and auratum, are about equal to demand and generally of good quality. Carnations are practically out of the running; a few field-grown are making their appearance. Asters seem to be late. A limited quantity of Queen of the Market is coming in, but so far they have made little impression on the market. A few sweet peas short stemmed, are still coming in. Gladioli are increasing in supply and are meeting with a good demand.

CINCINNATI

Good summer conditions prevail in the market. A good demand has kept up steadily throughout July. The supply, however, has increased greatly and has brought about conditions that are such that only the good stock sells readily. Only ordinary prices prevail. In roses the receipts of all teas are heavy. The greater part of the stock is short stemmed. Giganteum lilies clean up at fair prices. Auratum lilies are fine and are enjoying a fair call.

NEW YORK

No change is noted thus far in the wholesale market situation, which continues to stand at lowest mid-summer mark. Asters are getting quite abundant, as are gladioli, but outside of these two summer specialties very few flowers are being sent in. There are more than enough for any call that is likely to materialize at present, however. Roses as a rule are poor and carnations are worse. Plenty of lilies, lily of the valley, etc. Prices on the average have sagged a little since last week, although it did seem almost impossible for them to drop any further.

PHILADELPHIA

Very few words are necessary to tell the tale. About as good as could be expected at this season of the year. Asters and gladioli dominate the market. Roses are fair, but more good ones could be used. Here and there a few decent carnations are to be seen, but the great bulk of them are small and sleepy. Easter lilies surprisingly good and selling well. Lily of the valley plentiful and brisk. Orchids few, but enough for the demand. Gaillardia, coreopsis, centaurea, and delphinium are conspicuous among the minor items.

ST. LOUIS

The condition of the local market during last week was not healthy as far as business was concerned. Stock of all kinds is plentiful, but poor in quality—especially so in roses and carnations. Prices remain as they have been all this month on all stock except on gladiolus, which, owing to the over-production have sustained a drop in price. Beauties are best among the roses. Killarney, Richmond and Maryland are all coming in with short stems. Lilies and lily of the valley are not over plentiful.

1914 NEWS

Killarney Brilliant



The sensational new Killarney Sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years. Booking orders now.

GRAFTED, $7.50 per doz., $35.00 per 100, $150.00 per 500, $300.00 per 1000.

OWN ROOT, $6.00 per doz., $30.00 per 100, $125.00 per 500, $250.00 per 1000.

Delivery During March.

Also scions for grafting in 1000 to 5000 lots at $200.00 per 1000. Special prices in larger quantities. Delivery in December.

MATCHLESS

The splendid new white Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. $12.00 per 100, $100.00 per 1000.

We guarantee not only the quality of our plants, but their safe delivery by express.

RIBBONS and SUPPLIES

Many new patterns in exclusive ribbons. Write us for prices on these and on supplies.

During July and August we close at 5 P. M.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N. W.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON July 31	ST. LOUIS July 28	PHILA. July 28
Roses			
Am. Beauty, Fancy and Special	15.00 to 20.00	30.00 to 40.00	20.00 to 25.00
" " Extra	8.00 to 12.00	20.00 to 25.00	12.50 to 15.00
" " No. 1	5.00 to 6.00	15.00 to 18.00	8.00 to 10.00
" " Lower Grades	1.00 to 3.00	3.00 to 8.00	4.00 to 6.00
Killarney, Extra	4.00 to 6.00	5.00 to 6.00	4.00 to 6.00
" Ordinary	.50 to 2.00	2.00 to 3.00	2.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 6.00	5.00 to 6.00	4.00 to 6.00
" " Ordinary	.50 to 2.00	2.00 to 3.00	2.00 to 3.00
Maryland, Ward, Taft, Carnot, Extra	3.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" " " Ordinary	.50 to 2.00	3.00 to 4.00	2.00 to 3.00
Carnations, Fancy Grade	1.00 to 1.50	2.00 to 3.00	2.00 to 3.00
" Ordinary	.25 to .50	1.00 to 1.50	..... to .....
Cattleyas	25.00 to 35.00	40.00 to 50.00	50.00 to 60.00
Lilies, Longiflorum	3.00 to 6.00	8.00 to 10.00	10.00 to 12.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Gladioli	2.00 to 4.00	2.00 to 4.00	3.00 to 6.00
Asters	.50 to 1.50	1.00 to 6.00	1.00 to 3.00
Daises	.40 to .50	1.00 to 2.00	..... to .....
Sweet Peas	.15 to .25	.20 to .35	.50 to .75
Gardenias	4.00 to 6.00	..... to	6.00 to 8.00
Adiantum	1.00 to 1.25	1.00 to 1.25	1.00 to 1.50
Smilax	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, Strings (100)	..... to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes by the 100, 1000 or 10,000 The HOME OF THE LILY
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending July 26 1913	First Half of Week beginning July 28 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Maryland, Ward, Taft, Carnot, Extra	2.00 to 4.00	2.00 to 4.00
" " " " Ordinary	.50 to 1.00	.50 to 1.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.50
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
BOSTON
FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST
HOUSE

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending July 26 1913	First Half of Week beginning July 28 1913
Cattleyas	15.00 to 25.00	15.00 to 30.00
Lilies, Longiflorum	1.00 to 2.00	1.00 to 3.00
Lily of the Valley	1.00 to 2.00	1.00 to 3.00
Gladioli	2.00 to 5.00	2.00 to 4.00
Asters	..... to	..... to .....
Daises	..... to .50	..... to .50
Snapdragon	2.00 to 4.00	3.00 to 4.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

During Recess

Fun at Detroit.

In these days of enforced idleness we are very willing to follow the call of the good fellow and so more than fifty of us assembled at the grounds of Thos. Browne, who again proved himself the king of entertainers. A hotly contested ball game ended with a score of 9 to 8 in the ninth inning in favor of the Retailers. Quoit games and other sports furnished a good deal of enjoyment while all this time Mr. Browne and many willing assistants passed refreshments suitable to all ages and sexes present in a most liberal fashion. As evening drew nigh long tables were spread on the front lawn and many a good speech and timely jest testified to Thos. Browne's standing in the community. Among out-of-town guests were Mr. Bissinger and family of Lansing.

Notes.

The Chicago Ladies' Bowling team is practicing as often as they can get together, preparatory to the convention contests.

The Cook County Florists Association (Chicago) Baseball Club beat the Acorn Athletic Company Club by a score of 8 to 5 on Sunday, July 27th.

The Ornamental Growers' Association will hold its summer session at Hotel Walton, Philadelphia, on Wednesday, Thursday and Friday, August 6th, 7th and 8th. Theo. Smith, of Geneva, N. Y., is president of the Association and C. J. Maloy, of Rochester, N. Y., is secretary and treasurer.

Minneapolis Convention Number

Will be issued August 16. Goes to press, August 13 and 14. Will introduce you to a fresh field for business enterprise and a new line of prospective customers.

Will Be Circulated Where It Will Do You Good

SEND COPY AND INSTRUCTIONS EARLY
WE'LL DO THE REST

DON'T MISS IT

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus Sprengeri seedlings, 75c. per 100, prepaid. CHAS. FROST, Kenilworth, N. J.

Asparagus plumosus seedlings, $1.00 per 100; $6.00 per 1,000; $50.00 per 10,000. COLLINGDALE GREENHOUSES, Collingdale, Pa.

Asparagus plumosus, 3 in., $4.00 per 100. A. Sprengeri, 3 in., $3.00 per 100. Strong plants, Cash, please. J. W. MILLER, Shiremanstown, Pa.

6000 Asparagus Sprengeri, 3-in. pots, $4.50 per 100, $40.00 per 1000; 4-in. pots, $6.00 per 100, $50.00 per 1000.
White and Yellow Snapdragons, 2½-in., topped two and three times, $3.00 per 100.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWER—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS.

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

Morris & Snow Seed Co., 425 S. Main St., Los Angeles, Calf.
Freesia Blubs.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

FIELD-GROWN CARNATION PLANTS FOR IMMEDIATE DELIVERY.

	100	1,000
White Wonder	$8.00	$70.00
Mrs. C. W. Ward	8.00	70.00
Beacon	7.00	....
White Enchantress	7.00	....

FRANK P. PUTNAM.
P. O. Box 12. LOWELL, MASS.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

Smith's Advance, 2¼ inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J., Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

EREMURUS

Mt. Desert Nurseries, Bar Harbor, Me.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 131

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

William M. Davidge, P. O. Box 5, Brooklyn, N. Y.
Phosphorus.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havermeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., N. Y.
Tobacco Dust.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

LILIUM MYRIOPHYLLUM.

R. & J. Farquhar & Co., Boston, Mass.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA.

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

NURSERY STOCK—Continued

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Son, 31 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

Pansy Seed—"Mile High" Strain, the result of years of selection and the addition of the best from numerous sources. Colors, size and habit, extra good. Trade Pkt., $1.00; 6 Pkts., $5.00; 12 Pkts., $9.00. THE PARK FLORAL COMPANY, Denver, Colo.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York, N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1,000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order please.
WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's $1 doz. by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Phila., Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

ROSES—Continued

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 82 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cay.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy Seed.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Lawn Grass Seed.
Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 72 Cortlandt St., New York.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

SEEDS—Continued

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

Rocky Mountain Columbine Seed (Aquilegia Coerulea). The Colorado State flower. True to type. Seed grown from collected plants and we grow no other variety. New crop now ready. $1.00 per oz. Write for prices in large quantity. THE PARK FLORAL COMPANY, Denver, Colo.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

R. & J. Farquhar & Co., 6 & 7 South Market St., Boston, Mass.
Pot-Grown.
For page see List of Advertisers.

Breck-Robinson Nursery Co.,
Lexington, Mass.
Pot-Grown.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

W. & H. F. Evans, Rowlandville, Pa.
Celery Plants.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WEED KILLER

Pino-Lyptol Chemical Co., 455-457 West 26th St., New York City.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HELLSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St., Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BEAUTIFUL CROTONS.

Robert Craig Co., Market and 49th St., Philadelphia, Pa.
For page see List of Advertisers.

FERNS IN FLATS.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

IMMEDIATE SALE OF ROSES AND GARDENIAS.

Gude Bros. Co., 1214 F St., Washington, D. C.
For page see List of Advertisers.

LILIUM HARRISII AND AMARYLLIS BULBS.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

MEN WANTED.

King Construction Co.,
North Tonawanda, N. Y.
For page see List of Advertisers.

POINSETTIAS.

Frank Oechslin,
4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

PUTTY.

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

HELP WANTED

MEN WANTED

Greenhouse Draftsmen
Greenhouse Erectors

Applicants must be thoroughly competent, have greenhouse experience, state age, wages expected and detail previous experience. Apply

KING CONSTRUCTION CO.

North Tonawanda, N. Y.

FOR SALE

FOR RENT

A greenhouse, about 5000 ft. glass, with about one acre of land. Large boiler, nearly new.
EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1034.

FOR SALE OR RENT

Greenhouse plant of 15,000 ft. of glass, in good running condition. Hot water heat. Good home trade. JOHN IRVING, 161 Pearl St., Newton, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.

For List of Advertisers See Page 131

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

PUBLICATIONS RECEIVED.

The Missouri Botanical Garden Bulletin for July, 1913, contains interesting articles on Water Gardens, The Red Sunflower, Angraecum sesquipedale and other timely topics.

The Report of the Commissioners of Rockford Park District, Rockford, Ill., for 1912, has been received. The book is handsomely illustrated with half-tone views, etc., and shows that Rockford has a park system of which her citizens have a right to feel proud.

American Carnation Society—Proceedings of the Twenty-second Annual Meeting, held in New York, N. Y., April 8-10, 1913. Contains the usual interesting reports, list of members, etc., and, as a frontispiece a very fine portrait of President Phil. Breitmeyer.

New York State College of Agriculture, Ithaca, N. Y. The "Announcer" for July contains some interesting information concerning the Department of Floriculture, its equipment and work. The "Announcer" is published for the purpose of acquainting the people of the state with the kinds of work that are in progress at the State College of Agriculture. It announces the investigations, extension enterprises on farms and with the people, forthcoming bulletins, reading-courses, local schools, and other events and programs of which the public should have knowledge and which are not announced in the usual publications of the college. Any resident of the state may be placed on the mailing-list to receive the "Announcer," on request, so far as the size of the editions will allow.

Word that the annual recreation period is on and the lighter things of life particularly appeal, some pleasant reading for the leisure hours in the country or at the seaside is very acceptable. L. C. Page & Co., the Boston publishers, have turned out some excellent summer fiction in which all ages are provided for and, as in all the publications emanating from this house a healthy tone and clean sentiment as well as literary excellence characterizes each book.

The Blossom Shop, a story of the South, by Isla May Mullins, is a most delicious story—one that when you start to read it you want to keep on to the close. Price $1.00.

Peggy Raymond's Vacation, by Harriett Lummus Smith, is another engrossing story that the young ladies will especially enjoy. A party of girls spending summer in a country house and their experiences, amusing or thrilling, furnish the theme and introduce the reader once more to The Girls of Friendly Terrace. Price $1.50.

The boys are not forgotten either and The Pioneer Boys of the Mississippi, by Harrison Adams may be relied on to hold down the liveliest of them. It is teeming with hair-breadth escapes and thrilling adventure with wild animals and crafty Indians and has the merit further of accuracy of conditions, environment and historical reference. 345 pages, price $1.50 net.

Our Little Austrian Cousin, by Florence E. Mendel, and Our Little Bulgarian Cousin, by Clara Vostrovsky Winlow, while well adapted to the young reader will also be found interesting and instructive by those who are older, in their portrayal of customs and conditions as found in those far off countries. These books are 60 cents each, handsomely bound and illustrated.

For the little ones there are Jenny's Bird House, by Lillie Fuller Merriam and Little Rhymes, by Nell Thornton, both well adapted to engross and amuse the six and eight-year-olds. The latter has quaint dedication verses by Glenn McClaughry and type and illustrations in two colors. Price 50c.

All of the foregoing just out may be procured from L. C. Page & Co., 53 Beacon street, Boston.

GREENHOUSES BUILDING OR CONTEMPLATED.

St. Paul, Minn.—Como Park, range of houses.

Monticello, Iowa—C. L. Van Meter, two houses.

Dayton, Ohio—W. G. Mathews, range of King houses.

Baltimore, Md.—Charles G. Francis, range of houses.

West Boylston, Mass.—Charles Potter, addition 30 x 90.

Cincinnati, Ohio—William Horstman, range of houses.

Jefferson Park, Ill.—Samuel J. Pearce, range of houses.

Andalusia, Pa.—H. F. Michell Co., two houses, each 22 x 100.

Beaver Dam, Wis.—A. G. Boomer, Park avenue, three houses.

South Bend, Ind.—Adam I. Beehler, Lord & Burnham addition.

Northampton, Mass.—A. Parks, Jewett street, addition 25 x 45.

Gorham, Me.—Roland Barrows, lower Main street, addition.

Boston, Mass.—C. A. Sangill, 129 Rossetter street, one house.

Trenton, N. J.—James Meeney, South Clinton avenue, addition.

Brandywine Summit, Pa.—Albin Harvey & Son, house 54 x 500.

Alliance, Ohio—H. T. Miller, 522 South Freedom avenue, one house.

Michigan City, Ind.—Wm. A. Kintzele, three houses, each 22 x 150.

Crescent, Mo.—John Himmer, head gardener for the J. F. Milligan estate, reports that they are building two new houses this summer and when completed will have 50,000 feet of glass. Preparations are being made to grow for the trade.

PUTTY
Twemlow's Old English
Gals. $1.60
Wm. Elliott & Sons
42 Vesey St., New York

KING IRON FRAME
GREENHOUSES
are the best growing houses and that's what you are looking for.
The unanimous verdict of King Users is that the King is the best producer and the best value ever.
Let us send you the names of King owners near you.
JUST ASK THEM!
KING CONSTRUCTION COMPANY
28 King's Road, North Tonawanda, N. Y.
All the Sunlight All Day Houses

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4 in.	@ $4.50
1500	2	"	"	4.88	456	4½ "	" 5.24
1500	2¼	"	"	5.25	320	5 "	" 4.51
1500	2½	"	"	6.00	210	5½ "	" 3.78
1000	3	"	"	5.00	144	6 "	" 3.16
800	3½	"	"	5.80	120	7 "	" 4.20
					60	8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 31 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and export trade

STANDARD FLOWER
POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

What the Users Say



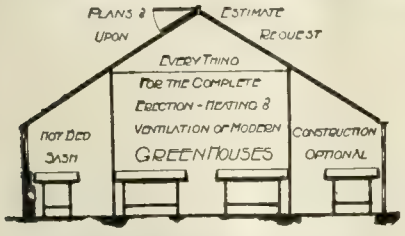
KROESCHELL REPLACES CAST IRON

¶ We are heating 6,000 sq. ft. of glass with the Kroeschell House Boiler you furnished last fall, and we think it can take care of more.
¶ We maintain a temperature of 60 degrees in the greenhouses and have no trouble keeping temperatures, even in the coldest weather.
¶ The boiler does not require attention after 9.00 p. m., except in the coldest weather, when we bank at 11.00 p. m.
¶ The boiler has given entire satisfaction. We doubt if your boiler could be improved upon; it is by far the best we have ever used, and we've been using heating systems for the past 30 years.

(Signed) THE AVENUE FLORAL CO.,
E. W. Eichling, Secretary.
New Orleans, La., March 3, 1913.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

MASTICA



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



DO YOU BUY

your ventilating apparatus and greenhouse fixtures of us? If you do you know how good they are and know where to send your orders to get satisfactory goods and service. If you don't you are neglecting something very important. In fact, you are buying inferior goods at perhaps higher prices. Give us one chance, that's all we need. Do it today.

ADVANCE CO., - Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Dreer's Peerless Glazing Points
For Greenhouses



Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



DREER'S

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

When Writing to Advertisers Please Mention Horticulture



Greenhouse Given to Gaffney Park by Mr. H. D. Wheat

Words from the Sunny South

MR. H. D. WHEAT, of Gaffney, S. C., gave this house to the Gaffney Park. He has a charming little Lord & Burnham Curved-Eave house on his private grounds. Here is what gardener, Mr. G. Janes has to say about the park house.

"I have worked in the Lord & Burnham greenhouses for the past three and one-half years, growing fruit, flowers, and vegetables, and we have always had the finest results—which I believe is partly due to the amount of light and proper ventilation.



Mr. G. Janes

Here, where I have to raise a good number of bedding plants beside the usual cut flowers and pot plants, I fix up shelves on which I can stand a surprising lot of plants, besides hanging heavy fern baskets in every little bit of spare room—which of course, is possible with the iron frame construction.

The neat way in which they are built too, gives a pleasing effect to any park."

G. Janes.

Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.



Glimpse of Greenhouse on Private Grounds of H. D. Wheat, Gaffney, S. C.

HORTICULTURE

Vol. XVIII. AUGUST 9, 1913 No. 6



Courtesy of Henry A. Dreer

CERASTIUM TOMENTOSUM

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

STRAWBERRIES

Farquhar's Pot-Grown Plants

NOW READY!

FULL CROP NEXT SUMMER IF PLANTED EARLY

Write for our Mid-Summer Catalogue of Varieties for July and August Planting

R. & J. FARQUHAR & CO.

6 and 7 SOUTH MARKET ST., BOSTON, MASS.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciosissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL, Summit, N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.
369 RIVER ST., CHICAGO.

CHRISTMAS PEPPERS

New Cluster Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼-in. pots, $3.00 per 100; $25.00 per 1000.

PRIMROSES—OBCONICA AND CHINESE

The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

POINSETTIAS

Strong Plants, true type, from 2½-in. pots $6.00 per 100, $55.00 per 1000. Shipped in paper pots.

Send for more at 1000 rates. Cash with order.

FRANK OECHSLIN, 4911 Quincy Street, Chicago, Ill.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

GERANIUMS

MARYLAND Ever since we have been in the Geranium business we have endeavored to find a novelty on which we could stake our reputation. In this endeavor we have raised hundreds of seedlings ourselves and discarded innumerable very promising seedlings offered by others as not possessing the quality we desired should be in our first novelty. Several years ago we placed in the hands of an expert hybridizer certain stock from which we believed the desired results could be obtained, with instructions that he was to spare neither time nor expense to produce a variety that would embrace as far as possible all that was required in a Geranium:—Color, healthfulness, habit of growth and freedom of bloom and we have no hesitation in claiming that these qualities are all found in our novelty of 1914, the "Maryland."

The "Maryland" is the result of a cross between Alph. Ricard and LaPilote. In habit of growth it resembles the LaPilote, only much stronger, being more robust, vigorous and branching. The foliage is handsomely marked with a chocolate zone. The individual flowers are magnificent, semi-double, perfectly formed and of grand texture, being profusely produced in enormous trusses. The color is of the most intense dazzling fiery red, of such marvelous beauty that words are inadequate to accurately describe its wonderful coloring and the exquisite finish of the plant.

"Maryland" is a variety that we introduce to the Florist and the great mass of flower lovers with every confindence that it will, with its most pleasing habit and strong constitution, prove satisfactory in every way, and meet every requirement of a first-class Geranium.

Ready Jan. 1st, 1914, 50 cts. each. $5.00 per Doz.

SCARLET BEDDER In "Scarlet Bedder," introduced by Elmer D. Smith, of Adrian, Mich, in 1913, we have an ideal Scarlet Geranium in every sense of the word. It is an intermediate color between S. A. Nutt and Alph. Ricard but being brighter or approaching nearer to Scarlet than either of these. It is a short, stocky, sturdy grower, making flower stalks at almost every joint. It is necessary to pinch out the buds to get a good growth in pots. The trusses are medium size, not quite as large as Nutt, but any deficiency in size is more than made up in the number produced, as the bed will become literally covered with the bright scarlet flowers. In comparison with S. A. Nutt it is superior in every way, much freer in bloom, more brilliant in color and the habit of plant is more compact. During the past summer it has been tried out in all parts of the country as a bedder, and has done remarkably, giving universal satisfaction, and the general verdict is that it is the coming scarlet bedding Geranium.

Ready Jan. 1, 1914, $1.00 per Doz., $6.00 per. 100.

R. VINCENT, JR. & SONS CO., WHITE MARSH, MD.

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

LIST OF ADVERTISERS

Page
Advance Co.....194
Albany Cut Flower Ex.....188
Allen, J. K.....188
Anderson, S. A..183
Aphine Mfg. Co.179
Aschmann, G....164
Atlanta Florist Co. 186
Ayres Co., S. Bryson 181
Badgley, Reidel & Meyer.....188
Barnard, W. W. Co. 181
Barrows & Son..164
Bayersdorfer, H. & Co.....185
Bay State Nurseries 163
Bloomingdale's ..182
Bobbink & Atkins 178
Boddington, A.T.177
Bolgiano & Son, J. 181
Boston Florist Letter Co.....186
Breck, J. & Son.181
Breck - Robinson Nurseries 182
Breitmeyer's, J. Sons 182
Bryan, Alonzo J.162
Burnett Bros....181
Burpee, W. A. & Co. 181
California Florist 183
California Seed Growers' Asso.181
Carbone 183
Chicago Carnation Co.....186
Childs, John Lewis 180
Clarke's, D., Sons 182
Clark, Everett B. Seed Co.....181
Cooke, Geo. H...184
Cowee, W. J....188
Craig, Robt. Co.162
Dards 182
Davidge, Wm. M.179
Dawson, H. S...163
Dorner & Sons Co. 162
Dreer, H. A..... 175-194-195
Dunlop, John H.183
Dysart, R. J....188
Eastern Nurseries 163
Edwards Folding Box Co. 186
Elliott's, W., Sons 195
Eppstein, Julius.183
Ernest, W. H...194
Esler, J. G..176-194
Evans, W. & H. F. 180
Eyres 182
Fairfield Landscape & Nursery Co.....178
Farquhar, R. & J. & Co.....162
Felix & Dykhuis.181
Ford, W. P.....188
Page
Forrest, Frank H. 183
Fottler, Fiske, Rawson Co....181
Framingham Nurseries 178
Froment, H. E..188
Frost, Chas.....178
Galvin, Thos. F.183
Gasser, J. M. Co.183
Goodsell, P. H..178
Grey, T. J. Co..181
Gude Bros. Co...182
Hail Association 176-194
Hall & Robinson.183
Hammond Paint and Slug Shot Works 179
Hart, Geo. B.....186
Heacock, Jos....162
Heinecken, Otto.181
Henderson, A....162
Hess & Swoboda.182
Hews, A. H. & Co. 194
Hitchings & Co..195
Holland Nurseries 164
Hilfinger Bros...194
Holm & Olson...182
Johnson, J. Oliver 180
Johnston Bros...183
Kasting, W. F. Co. 189
Keller, J. B. Sons 182
Kervan Co.....188
King Construction Co.....194
Page
Kramer, F. H...183
Kroeschell Bros.194
Kuebler, W. H..188
Lager & Hurrell.162
Lange, A.....183
Lemon Oil Co...179
Leonard Seed Co.180
Leuthy, A. & Co.164
Loechner & Co..164
MacMulkin, E...183
May & Co., L. L.183
McConnell, Alex.182
McCarthy, N. F. Co. 189
McCray Refrigerator Co.....185
McCullough's Sons Co., J. M.....186
McHutchison & Co. 164
McKenzie, John..162
McManus, Jas...188
Metropolitan Material Co.....195
Michell's Seed House 180
Michigan Cut Flower Ex.....186
Millang, Chas....188
Miller, E. S.....180
Montreal Floral Exchange 188
Moore, Hentz & Nash 188
Murray, Samuel.182
National Nurseryman 178
N. Y. Stable Manure Co.....179
Neissen, Leo Co.186
Oechslin, Frank.162
Page
Ouwerkerk, P....164
Park Floral Co..182
Palmer, W. J. & Son 182
Parshelsky Bros.195
Pelicano, Rossi & Co.....183
Penn, the Florist.183
Pennock - Meehan Co. 187
Pierce Co., F. O.195
Pierson, A. N...162
Pierson, F. R. Co.164
Pierson U - Bar Co. 196
Plant Food Co., 20th Century..179
Poehlmann Bros. Co. 186
Pollworth, C. C.182
Pulverized Manure Co.....179
Quaker City Machine Co.....194
Reed & Keller...188
Reinberg, Peter.186
Rice, M. Co.....183
Robinson Co., H. M. 188
Roehrs, J. Co...162
Roland, Thomas.162
Rolker, A. & Sons 164
Rosery, The.....182
Sander & Son...162
Scott, John.....162
Schling, Max....183
Sharp, Partridge & Co.....195
Sheridan, W. F..188
Siebrecht, Geo. C.188
Page
Siggers & Siggers 195
Skidelsky, S. S. & Co.....180
Smith, P. J.....188
Smith & Co., E. D. 178
Smith, W. & T. Co. 164
Smyth, Wm. J..182
Sprague, J. H...162
Stearns, A. T. Lumber Co....194
Syracuse Pottery Co. 194
Totty, Chas. H..164
Thorburn, J. M. & Co.....181
Traendly & Schenck 188
Valentine, J. A..182
Van Assche, F...195
Vick's, Jas. Sons.181
Vincent, R., Jr., & Sons Co.....163
Wants, For Sale.193
Ward, R. M. & Co 164
Weeber & Don...181
Welch Bros. Co..186
Whittier & Co., W. B. 178
Wilson, Robt. G.182
Wood Bros. 176
Woodrow & Marketos 188
Young & Nugent 182
Zangen, O. V....181
Zinn, J. A.....183
Zvolanek, Ant. C.181

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE, SEE PAGES 190, 191, 192, 193

A PREJUDICED BUYER

is an expensive luxury to any modern business. The successful buyers in all lines first determine the kind of merchandise they want, and then buy that kind where they can buy it best. They don't accept anything "just as good" and are never misled by shrewd salesmen. Before you buy your lily bulbs ask yourself these questions: Shall I buy because of price? Shall I be influenced by Smith because he's a nice fellow, or Jones because I've bought there for thirty years? Does the purchase price of lily bulbs regulate the profit I can make out of them? You will then probably come to the conclusion that it does not pay to buy just because the price is low; that while you like Smith and Jones, neither one carries the grade your business requires; and that if you want to compete and make money, when it comes to lily bulbs, you had better buy Horseshoe Brand, because the bulbs packed under this brand come from the most highly cultivated and best fields in Japan, and are not packed under any other mark. Besides this the prices are reasonable and deliveries have always been made at the right time.

A catalogue upon application.

COLD STORAGE GIGANTEUM

(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at	$ 6.00	each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"
" 250	" 8-10	at	25.00	"
" 180	" 9-11	at	22.00	"

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

SWEET PEAS

SPENCER VARIETIES

GROWN IN

New Zealand, Australia

Crop '13 just arrived. Write for prices.

LOECHNER & CO.

11 Warren St., New York, N.Y.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St Weehawken Heights P O No 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

	Per Hundred
American Beauty, 4 in.,	$12.00
Hillingdon, 4 in. . .	10.00
Sunburst, 4 in. . . .	15.00
Pink Killarney, 4 in. .	8.00
500 Radiance, 3 in. .	8.00

CHAS. H. TOTTY

MADISON, N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA

When writing to advertisers kindly mention HORTICULTURE.

Ferns in Flats

ALL VARIETIES

We are now shipping and will continue after Sept. 1st to ship Flats by express. Flats contain about 110 clumps.

Price $2.00 per flat, 20 or more flats $1.75 each.

Write for list of varieties, illustration and full particulars.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale, Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100 $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Callas

It is time to start callas. Roots that were grown in pots or benches last season, that have had a good rest and are now showing the beginning of a sturdy crown growth of a broad, hard button of yellowish green, are good for another season. Shake them out and replant into 5, 6, or 7-inch pots. For a compost use fibrous loam three parts, well decayed cow manure one part. See that each pot has good drainage and place them after they are potted in a cold frame where they can stay until the first week in September. When planting in a bench use a rich, heavy loam, and plant the roots a foot or a little more apart. If they are very long, lay them in a slanting position, always exposing the crown above ground. It is well to have the soil at planting rather moist, and if surfaced with a thin layer of moss or rotted manure, will stay moist until growth has made somewhat of a start. If this can be managed very little in the way of watering will become needful at this initial stage of growth.

Cinerarias

To be just about right with a batch of fine cinerarias in full bloom for next Easter, it is necessary to sow them now without delay. Mix up a compost of new loam two parts, peat or leaf mold two parts, and one part of sand. See that the pans are well drained with plenty of crocks. Upon the crocks spread some sphagnum moss and then fill the pans to within half an inch of the top, with the compost, but the last half-inch should be finely screened. Press the surface firm, absolutely level, water thoroughly and after they have drained out scatter seed all over the surface and cover each pan with a pane of glass. These pans should be placed immediately in a cold frame and kept moist and under heavy shading, to be made lighter after the plants are up. When they have their third or fourth leaf, plant into small pots or out free into a nicely prepared friable soil under frame protection.

Lilium Harrisii

If lilies of the Harrisii type are wanted for early flowering the bulbs should be planted as soon as you can get them. This lily holds again a most prominent place and is by many considered as valuable as any we grow for profit; especially for early flowering. Any good soil that does not contain green manure will do. It is best to place the bulbs entirely below the soil in planting, after a good watering has settled the soil, the tops to be just even with the surface and barely visible. Then stood closely together under a cool bench or in an outdoor frame, and covered with a thickness of two or three inches of sand, ashes or soil to hold evenness of moisture, the pots hardly ever need any further attention until renewed life shows, unless we happen to have a very dry spell when they should have some water.

Primulas for Late Winter and Spring

Now is a good time to make a sowing of primulas that will bloom good from the end of February and until Easter. From the date of sowing until the time of blooming, primulas usually require about seven months. If the seeds are soaked in water for a day and night, more even germination will be obtained. In sowing, use shallow boxes or seed pans filled not quite full with a mixture of light loam, leaf mold and sand. Cover the seeds with sand so that they will merely be out of sight. Place the seed pans in a temperature of about 60 to 70 degrees and keep them always shady and moist, never allowing the soil to become parched. If the seeds are fresh, which is of vital importance, the young seedlings will be ready for pricking out in five or six weeks from time of planting. For this, instead of pots, use flat boxes or seed pans filled with a mixture of one part of common soil and two parts of peat. Keep the plants in these flats or pans shady and continue same temperature as when germinating. When the young plants have three or four leaves, pot them in small pots, being careful to pot rather loosely and not too deep.

Sweet Peas for Early Winter Flowering

Sweet peas have been so greatly improved of late that it is possible to have them do fairly well during the early winter now. Procure the best known varieties in white, pink, lavender and scarlet which are among the best sellers. Sweet peas to do their best should be in a house by themselves and at least six feet headroom. Sod that was piled up last fall will make a very congenial soil to use. Make the compost rich by adding to every three loads of soil one load of well rotten cow manure and a pailfull bone dust. They will need at least four feet between the rows and do not sow the seed too thick. Use care in watering until the seeds begin to come through when they should be kept in a nice moist state. These plants like a syringing on all bright days. Keep them as cool as possible by giving plenty of ventilation both day and night and keep the surface between the rows stirred frequently.

Planting Roman Hyacinths

Roman hyacinths should be planted as soon as received. Do not use old worn-out soil, but give them a good compost of fibrous soil intermixed with about one-third well-decayed manure. After they are planted give them a very thorough watering. Where you have a bulb cellar you can place them there, but if not they can be put outside on a level piece of ground and covered all over about six inches with soil. If the weather remains dry they will need waterings at intervals.

Mr. Farrell's next notes will be on the following: Bulb Compost; Calceolarias; Carnations; Gardenias; Dendrobiums; Paper White Narcissi.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Boilers

It will not be so very long now until the artificial heat will be required to keep the temperature of the houses up to the mark, and then the worry and rushing because the boilers are not in shape, and new parts needed, and to make things worse there are many bad places in the pipes that will be blowing out as soon as the heat is turned on. Much of this can be avoided if the matter is taken in hand now, and the whole system well overhauled and put into first-class condition by the time fall sets in. Begin with the boilers. If they have not had their cleaning and their dose of oil, clean them all thoroughly, and apply the oil. Any oil will do, although fish oil is generally used, as it is the cheapest and goes further than any other oil. Now see that all parts of the boiler are sound and will carry through the coming winter. Any parts that are rather doubtful had better be replaced at once, or if the part is not very difficult to replace order it so as to have it ready, and then let the part stay until it breaks when it can be removed and the new part inserted. We would much rather replace all poor parts at once and thus do away with all worry and work at the unseasonable time of the year that this would happen. Then go over the mains and finally over the returns and coils in the houses. After a thorough overhauling it is not a bad idea to start the boilers and make sure that all is O. K. and in good working order. This seems like an awful lot of trouble, but it is nothing compared to the anxiety and worry caused by a break in the pipes in midwinter. Another good thing to make and have constantly on hand, are large wooden plugs that will fit all the different sized pipes on the place. Then if a break occurs in spite of all precautions one of the plugs can be driven into the pipe, and will hold the hot water until the break can be repaired and the heat turned on again.

Grates

Do not try to save money by leaving the old broken-down grates in the boilers for another season. That is poor economy to say the least, for poor grates will waste more coal than a half dozen careless firemen. With the constantly decreasing prices for cut flowers, and the constantly increasing expenses, to economize in the right way is a great help in making places pay neat dividends, and bringing fair returns to all who labor thereon.

Crimson Clover

Now is about the right time to sow the crimson clover that is to be plowed under next spring as a manure for the sod lot. Nothing like working ahead all the time to make sure that the supply of this essential will not give out. It is not a very good idea to put old greenhouse soil on the ground that is to be used for sod very soon as it is likely to contain certain fungi that may have a bad effect on the welfare of the plants when they are finally planted in this soil. Not that it is impossible to produce good stock with old soil. Many growers have to use old soil over and over again but where virgin soil is to be gotten, never use any old soil at all. A little lime applied to the land and harrowed in will greatly help the clover and will also help the soil. Another dose may be applied just before plowing this clover in, as it will then help decompose it, and put the soil in a much better condition to receive the plants.

Cutting from the Young Plants

Do not be in too much of a hurry to cut long stems from the young plants. Give them plenty of chance to make headway, always leaving at least one shoot on the plant uncut. This applies to Beauties; with Teas it is somewhat different, for they come in crops more or less, and when one plant is cut off clean the others will likely be the same. Should it happen that the surrounding plants are all growing, do not cut off one plant altogether, but pinch one or two shoots to give it a chance with the others.

Pinching for Long Stems

This hardly pays commercially as the short-stemmed roses sell much better than the longer stemmed grades. But on many places where only long stemmed are wanted pinching will give the long stems desired. To accomplish this without harm to the plants or the cut bloom, pinch the buds out when they are still very small, so small that they can just be seen. Usually the shoot will then continue to grow right on and there will be but little difference in the hardness of the wood from the lower part of the stem to the bud. If the bud is allowed to develop to any size before it is pinched, it will cause the shoot to stop growing for a while and then start, thus making a joint. In the early part of the season there is no objection to this but later when the wood becomes exceedingly hard, water will not flow through this joint as freely as it ought to, and when the cut blooms are placed in a shallow vase, in a hot room, they are very apt to wilt above the joint, for the evaporation through the foliage and petals is much greater than the supply of incoming moisture through the stem from the vase.

Vacation Time

It is very nice indeed to have a vacation and realize the dreams of the seashore, the mountain resort, or other pleasures sought at these times. But how often it is spoiled by thoughts of the duties neglected or left undone that vacation may be made possible! Perhaps not so very often after all and yet the man who cares and to whom the work is a pleasure and the production of prize-winning stock an interesting game will never enjoy his outing if he feels that all is not as it should be at home. The only way to have a right good time, is to have all work done on time, and have it all done well, and then an outing is certainly enjoyable. To go out having to feel that work has been neglected is worse

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Fruit Rooms

Through the recent hot weather the great advantage of possessing a good fruit room will have been very apparent. Not only greenhouse-grown fruit but all fruit will keep longer if the conditions are made right for it, and no place has the equal of a properly constructed fruit room. What satisfaction there is in knowing the fruit is good to keep for several days after gathering! Or it may be some of the fruit from the houses has to be cut and is good to keep here for quite a while. Many we know resort to the ice box but our experience has taught us that an extended stay on the ice causes fruit to lose its flavor and a second (perhaps greater) detriment is that they are more easily bruised. You will also notice how a melon, for instance, will sweat after being removed from the ice box to a warmer room. Comparing an ice box to a fruitroom we find a great difference in the atmosphere. Both are cool yet the one is a dry air while the other is very wet. One of the chief aims when building a fruit room should be to make provision for keeping the room moderately dry through the damp weather. I say moderately dry because this dryness can be overdone and the fruit will shrivel instead of keeping good and firm. A single line of hot water pipes placed near the bottom of the outside walls will keep the room dry enough. Hot water is preferable to steam heat as it is not so erratic and will stand even for a considerable length of time. The building itself offers a great variety of architectural possibilities when building, from the plainest looking building to something very fancy and ornamental. Whatever form it takes do not sacrifice any of the essential points inside to gain in appearance on the outside. The walls should be thick enough or—better still—contain an air chamber to nullify the quick changes of outside temperatures. The roof should be made of material that does not attract the sun. In some instances water towers have been built over them and the whole thing made to look very good. In Scotland many use a thatch of heather and some places in England still possess the straw-thatched fruit rooms. The interior offers just as large a scope for fitting up as the exterior does in building, from glazed brick walls, enameled fittings and glass shelves down to the roughest shelving. A good layout of such a room would be to erect shelves not more than 3 ft., 6 in. wide around the sides having a 2 ft. 6 in. elevation. This will make it easy to look over the fruit that is stored for any length of time, detecting any that may be going wrong. These shelves would store apples and pears well. If grapes have to be kept as late as possible make provisions for the bottles to be hung on a properly constructed rack in the center of the room, utilizing the remaining space for shelving as on the sides. Have a packing table plenty large enough to accommodate the amount of fruit to be handled, with packing material near at hand. Do not cut the walks down to a minimum or you will repeatedly regret it, as baskets, trays, etc., will always seem to be in the way, getting upset or otherwise damaged. Careful handling of all fruit is the keynote to good keeping. No matter what the reputation of any variety for keeping, if it is handled roughly it will soon start to decay and be a menace to any fruit near it.

Mildew

With the cooler evenings now coming on we shall soon see signs of mildew, especially in vineries that have finished and are standing wide open. As I have remarked before some districts are more susceptible to this trouble than others and lucky are those that do not know of its existence. Although there is nothing to be feared as there would be in the spring do not let it run ahead just as it pleases. Young vineries growing up for the first year will be liable to get it as the air is steadily increased on them. Use sulphur in the same form as during the trying spring months, either by blowing it on to the affected parts with bellows, using any of the various fumigaters on the market, or if there is steam in the house, turn it on for an hour and paint a little at intervals on the pipe. An hour will be long enough to keep the house shut up and will kill all the spores.

---

than staying at home and doing it, for then you at least have a peaceful mind.

The Pots

Now that all the planting is done get right after the pots. It may be too hot to work in the houses but it is not too hot to wash pots. Places where all pots are washed by machinery will generally make a quick job of it, and it is a wonder that more places do not have such things as the electric motor to run all the different machines that are operated by hand. It is surprising how much labor can thus be saved, which can be directed in another way and bring double the results. Be sure to sort out all the different sized pots and now is the time to do it. A most important part of the pots often left unwashed is a ring right around the top where the surface of the soil would be when a plant is potted. This little ring of green is very good seed indeed, and will quickly spread all over the pot if allowed to remain. Therefore be careful to have the pot perfectly clean on the inside at least, although the cleaner they are the better. First prize stock is seldom grown in dirty green pots that have never been washed.

SWEET PEAS

This summer with its prolonged drouth has been very trying for the sweet pea as even where the facilities are at hand for giving copious waterings it never seems to exactly take the place of a good rainfall. With us diseases of several kinds have been a little more common than in the past and we suffered from a hard frost on May 9th. These notes, however, are to deal more with the quality of the several varieties and are written now while everything is fresh in mind to help the readers of HORTICULTURE in selecting their varieties for next year. We are fortunately placed for doing this as we grow about a hundred varieties of what we conceived at the beginning of the year to be the best of the newer kinds. Taking the colors separately I shall mark those of superb quality with two asterisks (**) and those that are very good with one; I propose to name all the varieties we have grown so that the reader may see the kinds between which the comparison is made as of course there may be others of extra fine quality of which the writer has never heard.

WHITE

*Snowdon. Nora Unwin.
*Burpee's White Seedling. Mrs. Sankey Sp.
**King White. Etta Dyke (Syn. White Spencer.)

LIGHT PINK

Lady Evelyn Eyre Beatrice Spencer **Margaret Atlee
*Elfrida Pearson *Hercules *Paradise
Countess Spencer Marjorie Linzee

CRIMSON

Maud Holmes **Orion
*King Edward Spencer Ruby Spencer

SCARLET

*Queen Alexandra Spencer *Scarlet Emperor
Vermillion Brilliant Bolton's Scarlet

PINK BICOLOR

**Mrs. Cuthbertson *Colleen
Apple Blosson Spencer Mrs. A. Ireland

PINK STRIPED

*Mrs. W. J. Unwin Aurora America

PICOTEE EDGED AND FANCY

Junita Spencer Rainbow Spencer
*Ethel Roosevelt *Martha Washington
Mrs. Townsend Evelyn Hemus
*Perdita *Helen Pearce
May Campbell *Senator

CREAM

**Floradale Fairy Queen Victoria
**Dobbie's Cream Clara Curtis
*Primrose Beauty Primrose Spencer
Isobel Malcolm

CREAM PINKS

*Duplex Spencer Mrs. R. Hallam
Mrs. Hugh Dickson Anglia-Pink
Mrs. Routzahn Constance Oliver
Doris Usher **Lillian
*Thora

LIGHT ORANGE

Anglian Orange *Carine Helen Grosvenor
**Edrom Beauty Helen Lewis

DARK ORANGE

*Thos. Stevenson Dazzler
**Edna Unwin St. George

SALMON

**Inspector Earl Spencer
*Melba *Andrew Aitken (darker
*Barbara shade)

CHOCOLATE OR MAROON

**Nubian Othello Spencer
Mrs. Cowdy *King Manoel

BLUE (DARK)

** Navy Paradise *Lord Nelson Spencer.

LAVENDER

**Orchid Irish Belle
*Bertrand Deal Imp. Mrs. Heslington
Florence Nightingale Freda Unwin
*Pearl Gray

LIGHT BLUE

*Margaret Madison Anglian Blue

BLUE STRIPE

**Bertie Usher *Loyalty

CARMINE ROSE

*George Herbert Marie Correlli
Decorator *John Ingman
Rose Du Bari **Rosabelle

SOME OTHERS

**Charm, a very delicate pink and a grand grower; **Afterglow, a lavender and violet bicolor; **Prince George, lilac rose; *Agricola, white with a shade of silvery lilac; **Charles Foster, purplish pink; **Purple Prince, a beautiful purple; *Captivation, a different shade of purple from the above; *Arthur Green, between a purple and maroon; *Zarina Spencer, a golden pink; *Sterling Stent, a distinct shade of orange scarlet; *Countess of Ancaster, plum color.

The twelve best and absolutely indispensable varieties are:

King White, Margaret Atlee, Edrom Beauty, Inspector, Edna Unwin, Nubian, Afterglow, Orchid, Dobbie's Cream, Rosabelle, Scarlet Emperor, Mrs. Cuthbertson.

Edwin Jenkins

Lenox, Mass.

CERASTIUM

Belonging to the order Caryophylleae, cerastiums are low-growing Alpine plants distinguished by silvery or grayish white, wooly or hoary foliage. As garden perennials they prove useful for edging on herbacous borders and may be employed to cover ground surface on said sunny slopes. I have also found them valuable for dry-wall planting, but by far the most congenial conditions for their perfect development and effect, the rock garden usually offers. Of the six species known to horticulturists Cerastium Bibersteini, with grayish white leaves, a native of the Caucasus Mountains; Cerastium grandiflorum, silvery white large-flowering type of strong growth, about six inches tall, hailing from the Balkan districts, and the old-time Cerastium tomentosum, frequently used for carpet-bedding, merit general attention. Thriving best in light sandy soil they respond readily to a reasonable amount of care. During May when in full array of countless blossoms, plantations appear strikingly handsome. Our frontispiece, a reproduction of a photograph taken in the rockgarden of Henry A. Dreer, Inc., in Riverton, N. J., last spring, gives a fair idea of the effect of the species tomentosum. Cerastiums can be raised from seed and propagated by cuttings and divisions in spring or fall.

Riverton, N. J. Richard Rothe

LILIUM SARGENTIAE



No picture, however good, can do full justice to this superb lily collected by Mr. E. H. Wilson in Western China and now being introduced to Amer can garden lovers and the horticultural trade by R. & J. Farquhar & Co., of Boston, Mass. The flower is pure white with a bronzy flush on the outside, of enormous size and as here shown the plant is of remarkably sturdy growth and bears its blooms in great profusion. The plants form little bulbils in the axils of the leaves as with Lilium tigrinum. For large decorative effect in florists' work no lily can excel this newcomer and it has the advantage of a pleasant odor not oppressive in the least. It is absolutely hardy in New England gardens and coming as it does, after the elegans group, myriophyllum, etc., and before the speciosums and other late bloomers, it bridges over the summer gap in a manner that makes lilies in the garden a continuous possibility from July till fall.

HORTICULTURE

VOL. XVIII AUGUST 9, 1913 NO. 6

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.
Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Cerastium tomentosum.
NOTES ON CULTURE OF FLORISTS' STOCK—Callas—Cinerarias—Lilium Harrisii—Primulas for Late Winter and Spring—Sweet Peas for Early Winter Flowering—Planting Roman Hyacinths—*John J. M. Farrell* 165
ROSE GROWING UNDER GLASS—The Boilers—Grates—Crimson Clover—Cutting from the Young Plants—Pinching for Long Stems—Vacation Time—The Pots—*Arthur C. Ruzicka* 166
FRUIT AND VEGETABLES UNDER GLASS—Fruit Rooms—Mildew—*George H. Pearson*..... 167
SWEET PEAS—*Edwin Jenkins*..... 168
CERASTIUM—*Richard Rothe*..... 168
LILIUM SARGENTIAE, Illustrated..... 169
CONVENTION TOPICS—*Theodore Wirth*..... 171
SOCIETY OF AMERICAN FLORISTS—Twenty-Ninth Annual Meeting and Exhibition—New York Florists' Club—American Carnation Society—Ladies' Society of American Florists..... 172
CLUBS AND SOCIETIES—Maryland-Delaware Horticultural Societies—Southampton (N. Y.) Horticultural Society—Florists' Club of Philadelphia..... 173
Club and Society Notes..... 172
ARE STANDARDS OF PURITY PRACTICABLE IN SEED LAWS?—*George S. Green*..... 174
CATTLEYA MOSSIAE IN CALIFORNIA, Illustrated.. 176
WALTER MOTT'S NOTES BY THE WAY..... 180
OF INTEREST TO RETAIL FLORISTS:
Steamer Departures—New Flower Stores..... 182
Flowers by Telegraph..... 183
The Funeral Spray—Florists' Telegraph Delivery.... 184
DURING RECESS—The Washington-Baltimore Outing, Illustrated 184
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati, Detroit, Philadelphia 187
New York, St. Louis..... 189
MISCELLANEOUS:
Storm in Washington, D. C..... 173
News Notes.....176–189
Greenhouses Building or Contemplated..... 179
Patents Granted..... 179
Incorporated 180
Defective Lilies—*H. H. Bartsch*..... 180
Philadelphia Notes..... 183
Chicago Notes..... 184
Personal 185
Cincinnati Personals..... 189
The Glass Market..... 194

Affiliation

The frequent allusion to the advantages of "affiliation" between the S. A. F. and other organizations, by men active in the affairs of these bodies, would indicate that this topic will be one of the most discussed questions at Minneapolis. One fault with convention debate on far-reaching problems of this character is one is that they are apt to be short-viewed and the ultimate success of their agitation is frequently weakened by the acts and declarations of the most zealous of supporters, so that ways and means carefully and with great effort matured by those who have given long time and much thought to the subject are sometimes badly deranged and thus the sincerest friends of a movement really stand in the way of its realization because of unconsidered yielding to or urging relatively unimportant details and expedients of the moment. We certainly hope this important subject may come before the convention in some well-thought-out committee report and that the men who have done the thinking may be on deck to fully explain the "why and wherefore."

To safeguard parcel post

Our editorial "Parcel Post Menaced" in last week's issue has received much favorable comment from our readers. One letter from a prominent florist in Albany, N. Y., is so particularly pleasing that we reproduce it here.

Dear Sir:— August 5, 1913.

Referring to your editorial in the last issue of HORTICULTURE in reference to the Parcel Post I have taken this matter up with our Congressman in such a way that I think things will be left as they were with the increase in weight, of course, that we desire. I know that Congressman Ten Eyck will take care of us and if there is anything more I can do in this line, why let me know.

Yours very truly,
WILLIAM C. GLOECKNER.

Simultaneously there appeared in the Knickerbocker Press of Albany an article editorially approving the sentiments expressed in HORTICULTURE on this subject and voicing the anxiety of the merchants of Albany that no interference with the development of Parcel Post be tolerated. We hope that many more florists in every congressional district of the country will promptly emulate and vigorously follow suit to Mr. Gloeckner's timely action.

A good substitute for an experimental garden

Our news notes during the summer months make frequent mention of the visits of the garden committee of the Massachusetts Horticultural Society to interesting private estates or commercial horticultural establishments in eastern New England. This committee has been more active this season than in any recent year, President Farquhar having strong views on the great value of this particular branch of the Society's activities. This committee has been held in very high esteem from the early days of the Society's existence. We find in Robert Manning's History of the Massachusetts Horticultural Society frequent reference to its work. In the year 1856 the garden committee was very active, visiting many places of note. Mr. Manning quotes from the report of the committee for that year as follows:

"The Committee cannot close this report without expressing their high approval of this portion of the Society's labors. A spur and new life have been given to horticulture, and a laudable ambition and emulation encouraged. The rich specimens of fruit which adorn our tables, and compete for the prizes, are now, in most instances, but fair and true representatives of the gardens from which they come, and need not be ashamed of the places where they grew. We are happy to believe that the pleasure and satisfaction of these visits have been mutual. Few persons are without the desire for praise or approval, which it is always a satisfaction to receive from those considered best competent to judge, and having official position. The awarding of liberal premiums, and a careful inspection, when invited, of the numerous and increasing gardens dotted over this Commonwealth, may be justly considered a good substitute for an experimental garden (one of the early objects of this Society,) and perhaps is the best method of expending our funds for the promotion of horticulture and improved gardening."

The committee nowadays does not wait for an invitation always but sometimes makes visits of its own choosing. Its awards are much coveted.

CONVENTION TOPICS

Our Duty to one Another

Are all the many advantages of our conventions and trade exhibits understood and recognized, and are we all doing our share to advance those advantages for the common good of the trade in general?

This question has undoubtedly presented itself to all who make it a practice to attend the S. A. F. and O. H. conventions regularly or at intervals, and no one will undertake to answer same in the affirmative. True, we are progressing continuously, but we do not, in fact not even a majority of us, show the spirit which should enthuse us to really great work. More of the many men who, through their own personal achievements, are prosperous and have won for themselves positions of prominence in the trade, and power and influence amongst the craft and fellow citizens, should recognize that to the trade, through which they have gained the position they enjoy in life, belongs a certain amount of support, assistance and sacrifice which they do not now give in full share. This is true, notwithstanding the fact that there is no body of men who, as a whole, can cancel the spirit of friendship, good-will and comradeship as it exists among the horticulturists, not only in the states, but all over the world. Such friendship and good will, however, do not accomplish all they are capable of unless we employ them in a more telling and effective manner in some of our business relations amongst ourselves and with our trade in general. I believe that the speaker at a recent meeting of the Florists' Club of Philadelphia was entirely right in saying that "we do not always give each other the square deal," and his remarks which were dealing in the main with existing relations between growers and retailers, can well be applied and are equally true in a still broader sense when we consider the relations between the craft as a whole, and our endeavors to advance and explore to the fullest extent our large and ever promising field of work.

An Opportunity Neglected

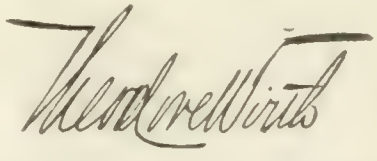
The truth of this fact is well demonstrated through the comparatively small interest shown by the growers and dealers of this country in the undertaking of an outdoor exhibit in connection with the coming convention. No better opportunity has ever been offered to any grower or dealer to display his plants adapted for outdoor culture, than the garden now planted, which from a cultural point of view is now in a very promising condition. The expense for space was very low and the assurance given for the proper care, cultivation and protection of the exhibits could not have been made more satisfactory.

The benefits of such exhibits are manifold and must be clear to all progressive and wide-awake horticulturists. From a strictly business point of view they cannot help but be a good advertisement. They are an education to the craft as a whole, and also to the public in general, whose love and understanding of plants and flowers are well worth stimulating and cultivating. What better means can we employ to call attention to good, meritorious novelties, and to make comparisons between classes and varieties of plants? In what better way can we demonstrate the achievements of our skill and our endeavors—not so much amongst ourselves as to the public whose servants we are, must be, and want to be.

Every horticulturist should be willing to contribute his share and sacrifice to gain the attention of the public to the work and accomplishments of our noble profession and to do this he should be able and willing to give a page in his ledger for the intrinsic value of his goods and forget for a moment the grind of the dollar.

The answers to our appeal for exhibits received from some of the leading firms, and the marked indifference shown by the great majority of growers and dealers, is, to say the least, discouraging, and not very creditable to the craft as a whole. Out of the thirty-one exhibitors in the Convention Garden, seventeen are outsiders, and fourteen local concerns who came to the front to help make the garden a success.

The only reasonable excuse for the lack of better support for this undertaking is that it is a new venture in connection with our convention. Good weather prevailing, the success of this Exhibition Garden is assured, and it is hoped same will result in similar displays at future conventions, to which the trade will surely give better support.



Minneapolis Convention Number

Will be issued August 16. Goes to press, August 13 and 14. Will introduce you to a fresh field for business enterprise and a new line of prospective customers.

Will be circulated where it will do you good.

Don't Miss It

Send Copy and Instructions Early.
We'll Do The Rest.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Twenty-Ninth Annual Meeting and Exhibition

A state of preparedness for the Convention of the S. A. F. & O. H. may be said to exist at this time—the beginning of the Convention month. All the local committees have been and are working in harmony, and all details are so arranged that no one expects the slightest hitch to occur during convention week.

The main hall of the Armory, where the trade exhibits are to be located, is ideal for exhibition purposes. The plantings in the outdoor exhibition have progressed well, and should be just right when the convention opens.

Intending visitors should avoid the possibility of disappointment in obtaining hotel accommodation to their liking by making room reservations at once. Minneapolis has many good hotels, but at this time of the year they are generally well patronized by tourists, hence the wisdom of booking accommodations early.

The halls and rooms where the Convention sessions, committee meetings, and society meetings will be held, are pleasant and well adapted for meeting purposes. Hours for all meetings have been arranged with a view to avoid confliction with general functions.

Great preparation has been made to care for the comfort and pleasure of the visiting ladies. The Minnikahda Club, where the luncheon will be given on the Wednesday afternoon, is one of the attractions of Minneapolis. The ladies' trip to St. Paul on Friday, starting at 9.15 A. M., instead of 10 A. M., as mentioned in the program, will be made by trolley instead of automobiles. On arrival in St. Paul the visitors will be taken in automobiles on a trip through the city and its surroundings, returning to Hotel Radisson, Minneapolis, at 5 P. M. The St. Paul boys are making every endeavor to ensure that this day shall be a red letter one.

Tonka Bay, where the outing will be held, is a lovely place, and nothing will be left undone which will in any way contribute to the pleasure and comfort of the guests. One of the commodious boats plying on Lake Minnetonka has been chartered, and it will make hourly trips around the lake, affording opportunity for a sight of the many beautiful residences on the shores of this beautiful body of water. Arrangements have been made for a series of water sports, in addition to the sports on shore as outlined in the program. There will also be plenty of opportunities for boating, fishing and bathing. There is a splendid bathing beach and excellent grounds for the sports and ball game.

The bowlers have been well provided for. Fourteen of the best alleys in the country, centrally located, are at the service of all who wish to take part in the bowling tournament.

The local committees, headed by Vice-President Wirth, have worked hard on the preparations for the Convention, and deserve every success. It will not be their fault if the 1913 Convention does not pass as one of the most enjoyable and instructive in the history of the Society. Your Secretary has been privileged to be among the workers for a month or more in advance of the Convention, and is deeply impressed by the enthusiasm displayed. He is delighted with the city as a Convention city, its attractions are so many. With its beautiful lakes, parks, and miles of boulevards, it is well worth a visit at any time, whether a visitor come from the far East or the far West. What, then, will it prove to the florists, who will come in their numbers, and in addition to the beauties of the city that fraternal spirit which characterizes all our Conventions and results in friendships that are only broken by our passing over the border which we all must pass?

No one who is able to go to Minneapolis should miss the opportunity to do so, for the city is one of the most beautiful in the United States, and its florists from one of the most generous and courteous sets of men to be met with anywhere, men whose particular aim at this time is to do everything that could possibly be done to make our Convention the success it is bound to be.

Minneapolis is justly entitled to the name "City of Homes."

JOHN YOUNG, Sec'y.

August 1, 1913.

NEW YORK FLORISTS' CLUB.

Dear Fellow Member:—

Of course, you are going to the Minneapolis Convention.

I say "of course," because the convention is going to be so full of delightful possibilities, that you and the other members of your family including ladies, can't afford not to afford to go. The club committee have asked me to be sure to ask you and your friends to join our party and go out with us in our special car. We are all certain to have a jolly time. All the various comforts that go to make such a trip a pleasure have been looked after very carefully.

The railroad fare one way will be $27.80 and the round trip fare by rail will be $54.20. This does not include the charge each way of $5.60 for upper berth, or $7.00 for lower. If you are considering coming back by boat, you will find the cost, etc. in the "Official Tour" folder, which fully describes everything about the trip.

We want you to go with us. Don't delay in writing your decision. Send along the money so I can make your reservation. None can be made without it. Don't do as some of the boys did last year—put off sending word until the last minute, and then feel put out because the special car was full.

Yours very truly,
THOS. B. DE FOREST, Sec'y.

AMERICAN CARNATION SOCIETY.

The board of directors of the American Carnation Society will hold its summer meeting at Minneapolis, Minn., on Thursday morning, August 21st, in committee room B of the S. A. F. & O. H. convention hall. All members of the Society who are in attendance upon the Convention are invited to this meeting. The meeting will be called at 9.00 A. M. Members are requested to assemble promptly at that time as there are a number of meetings of different societies to be held during the morning and each must hold its meeting during the allotted time.

R. T. BROWN, Pres.,
A. F. J. BAUR, Sec'y.

LADIES' SOCIETY OF AMERICAN FLORISTS.

Members of above Society will find the Secretary at Committee Room D.; the office will be open all of convention week. Annual meeting, Wednesday, August 20th, at 10 A. M., Committee Room D. Reception at the Hotel Radisson, Thursday evening, August 21st, from 8.30 to 12.

A meeting of officers and board of directors is called for Tuesday evening, at the Hotel Radisson. Members please wear your badge pin.

MRS. CHAS. H. MAYNARD,
Secretary.

CLUB AND SOCIETY NOTES.

At the meeting of the Detroit Florist Club, August 4, J. R. Stock, who grows a great number of fancy gladioli, showed a wonderful specimen of gladiolus Europe, a pure white variety from Holland. The club meets now regularly at the establishment of A. Pochelon. The following officers for the coming year were elected as follows: President, Frank Danzer; vice-president, Alb. Pochelon; secretary, Ral. Wells; treasurer, Rob. Rahaley.

The monthly meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., on Saturday, August 2nd. A vote of thanks was accorded to Ed. Jenkins for an exhibit of three new varieties of sweet peas—namely, Burpee's Seedling, King White and Floradale Fairy. August 13th was fixed as the date for the annual field day. The summer show, which falls due on the 20th and 21st, was freely discussed, and Messrs. Harry Allan and Walter Angus are the judges.

JOHN MAIR, Ass't Sec'y.

CLUBS AND SOCIETIES

MARYLAND-DELAWARE HORTICULTURAL SOCIETIES.

The joint summer meeting of the Maryland and Delaware Horticultural Societies was held at the home of J. G. Harrison & Sons, Berlin, Md., today. The meeting was largely attended, there being between 1200 to 1500 present with representatives from Maryland, Delaware, Virginia, Pennsylvania, New Jersey and New York, the membership of the societies of these representative states being invited by the hosts and the Maryland and Delaware Societies. The main object of a summer meeting is to permit the members of the societies to observe practical horticultural development and at the home of this notable firm can be seen trees from their earliest stage as seedlings, then budded on improved varieties to produce successful nursery trees and in turn develop into profitable orchards. One of the most striking demonstrations to be observed at this place is the remarkable peach crop on 10,000 peach trees which have been saved by a successful treatment of spraying under the auspices of the School of Horticulture, Maryland Agricultural College, to prevent the loss of the fruit by fungus disease known as "brown rot." The rot was so persistent that it was necessary to continue spraying the trees for more than three weeks at a time during the early stages of the fruit, but under the careful supervision of the School of Horticulture and thorough co-operation of the firm, a most successful crop of peaches has been produced amounting to over 35,000 baskets of fancy marketable fruit.

The visitors were cordially met by the representatives of the Associations, the firm of J. G. Harrison & Sons and invited to dinner, after which a brief formal meeting was held. President E. P. Cohill of the Maryland Society was unable to be present on account of sickness and in his place Vice-President Robert L. Graham of Baltimore City presided. Hon. Orlando Harrison extended in a few well chosen remarks, a hearty welcome to the visitors. A response was given by W. E. Sanger, president of the Peninsular Horticultural Society. Dr. H. J. Patterson, president of the Maryland Agricultural College made a few remarks, expressing his gratification at the remarkable progress that has been made in the general horticultural industry on the peninsular. He pointed out where the agricultural college is trying to do its best to promote the development of this industry and expressing a hope that the institution would in the future be able to do much more. Prof. T. B. Symons, Dean of the School of Horticulture and Secretary of the Horticultural Society, made a few remarks calling the attention of those present to the annual meeting of the Maryland Society which will be held at the Fifth Regiment Armory, Baltimore, November 17 to 22. After having a most delightful day the visitors repaired to Ocean City to enjoy an evening on Maryland's most famous beach.

SOUTHAMPTON (N. Y.) HORTICULTURAL SOCIETY.

This Society is planning now for its Exhibition. Overlooking the fact that we have had a very dry season, it promises to go ahead of any exhibition we have had, both as to quantity and quality. This being called the Newport of Long Island, we have many wealthy summer residents from various states. There is a strong competition among them and their respective gardeners are furnished with money and other facilities to produce the best. Some of them give their gardener a handsome sum for each first prize they obtain and a smaller amount for each second prize, thus making it of double interest to the gardener to do his best.

We will pitch our tent this year on a plot that has been especially prepared and graded in Prospect Park, near Lake Agawam. Our president, Julius King, is head gardener on the estate of the late Salem H. Wales, and also the adjoining summer place of Hon. Elihu Root. Our secretary, Mr. Palmer, is a man who puts his energies into anything he takes in hand. Our financial secretary, F. Smith, is head gardener at the Meadow Club, where they demand the best in everything. He always adds much to our exhibition and carries off many prizes. We have several large summer residences here and I may speak about some of them later, but if you can, come and see them for yourself.

D. T. Wells,
Corresponding Secretary.

FLORISTS' CLUB OF PHILADELPHIA.

The August meeting of the Florists' Club of Philadelphia, held on the 5th inst., was fairly well attended for a mid-summer event. Routine business of little public interest took up most of the time. The only ripple of liveliness arose over the propriety of the Club's extending an invitation to the S. A. F. to hold its next International Show in Philadelphia. Most of the members expressed themselves as perfectly willing to shoulder the responsibility and quite confident of carrying the big affair through on the same high standards as set by Chicago, Boston and New York. But there is one initial difficulty which up to the present seems insoluble, and that is that Philadelphia has no suitable building available. The matter was finally left open so that if any new solution of the difficulty turned up a special meeting might be called and appropriate action taken. From present indications the party from Philadelphia to Minneapolis will not be large. Chairman Westcott reported that the 10.25 A. M. from Broad street on the 17th, allowed them an hour in Pittsburgh for supper, etc., and a day in Chicago to visit friends. From Chicago the intention is to join the New York and Boston delegations. Of course, a good many Philadelphians go on ahead to prepare their exhibits. Among the firms who will have interesting displays are the Robert Craig Co., Henry A. Dreer, Joseph Heacock Co., Pennock-Meehan Co., M. Rice Co., H. F. Michell Co., and H. Bayersdorfer & Co. Nothing has been heard of a bowling team this year, so that if Philadelphia is represented in that line it will have to be by a scratch aggregation and not by the usual bunch of picked experts.

STORM IN WASHINGTON, D. C.

A 70-mile-an-hour wind, accompanied by hail and rain and a drop in the temperature of over thirty degrees, did damage approximating $250,000 in less than half an hour. Trees two feet and more in diameter in the White House grounds and the public parks were lifted up by the roots and everywhere blooming plants were destroyed. The storm seemed to center in the northwest section, although all parts of the city suffered to a greater or lesser extent. On the property of George Field, on Georgia avenue, about one hundred boxes of glass was destroyed. A large rose house was blown down and while all of the other houses will be repaired, this one will not be rebuilt. The wind and hail threatened to destroy his orchids, but the wrapping of the plants in cotton batting prevented this additional loss.

The grounds of William F. Gude, which are located nearby, also showed considerable wreckage, for the Japanese pagoda and the rose arbor were demolished. The galvanized iron supports of these, set in cement blocks running fifteen inches below the surface of the ground, were pulled up by the roots; large trees on the lawn were splintered and ferns and other potted plants on the porches around the house were blown across the lawn. Nearly all of the windows on the north side of the house were blown in.

In the downtown section, the large plate glass window in the new building of the S. S. Pennock-Meehan Company, at 1216 H street, was splintered. A gust of wind split one of the larger windows of the store of Z. D. Blackistone, at Fourteenth and H streets, across the center and another gust deposited the upper portion in back of the lower within the store. At about the same time a smaller window was also blown in. Florists in Anacostia, D. C., and in Alexandria, Va., also suffered the loss of glass in varying amounts.

A large section of grill-work, 20 feet long, about three feet high and nearly a foot in thickness on top of the store of O. A. C. Oehmler, 1329 G street, N. W., was thrown into the street within a few feet of where Mr. Oehmler was standing and the roof of an adjoining building was also blown away.

ARE STANDARDS OF PURITY PRACTICABLE IN SEED LAWS?

A Paper Read by George S. Green Before the American Seed Trade Association, June, 1913.

I have agreed with our President to open this subject for discussion, and not to prepare an exhaustive study of it. The title of the paper, as printed in the program, was selected for me, and not by myself, but really it is too narrow to cover the questions at issue with regard to seed legislation, and I think discussion should go into the general features of practicable seed legislation and not be confined to the question of standards of purity.

Laws Wise and Unwise.

My opinion as to the proper province of criminal law is, that it should be invoked only to punish or restrain the man who has done, or would do serious injury to his neighbor or to society at large. Laws which hamper or restrict the action of the man who is, upon the whole, performing useful service to society may easily do more harm than good, unless very carefully considered. Progress toward perfection in human conduct will always come rather from the growth of better ideals in individuals and in the community than from the compulsion of law.

Some well-meaning but unwise reformers think that law should so closely hedge about the conduct of individuals that any slight departure from their own ideals will be met with severe punishment. Laws based upon such ideals frequently are faulty because natural conditions prevent their enforcement.

Any law which is unenforced or unenforceable, works a great injustice against the law-abiding man who tries to conform to burdensome or impossible conditions only to find the law is dead, and does not, and cannot regulate the conduct of his less scrupulous or less careful competitor.

Absurd Standards.

Many seed laws have been proposed, and some of them passed, which have established standards of purity so high that it has been impossible to produce or re-clean seeds in quantity so that they would conform to the law. In some instances the first official act of officers charged with the enforcement of the law has been to practically nullify portions of the law, because they could not be enforced. Such standards of purity are absurd and should never again be incorporated in a law. Every such law enacted defeats and delays that reasonable regulation of the seed business which will undoubtedly sometime be in effect in most of the states. A reasonable standard of purity to which seedsmen having proper equipment can conform, is probably a wise and proper provision of a seed law, but it is my belief that when seeds have been cleaned to such a standard they should be salable in any and all states, without tags or restrictions of any kind. Seeds below this standard should be tagged with reasonably full information, showing the relatively low grade of the seed, and a second and lower standard might also be provided, and the sale of the seeds below this standard prohibited. The Iowa seed law is constructed somewhat along these lines, and it has probably been the most effective and beneficial law in force in any of the states. If some of the defects of the Iowa law could be corrected, and if it could then be made the law of every state of the Union, seedsmen would know how to conduct their business, the farmer would be protected and the general food of agriculture conserved.

The trouble from which seedsmen suffer most now is the multiplicity and variety of standards, and of laws. Standards too high, standards too low, standards wise, standards foolish, germination standards, tags in many styles and sizes, licenses, requirements to state the place of growth, the year of growth, the purity by count the exact percentage of each and every impurity in every parcel, of seed; all these confront the seedsmen doing a general business. As yet no eminent lawmaker has proposed that each and every seed shall be labeled with all these facts, but the decade is still young and the brains of the lawmakers busy.

The "Boston Bill."

If, in some way, we could secure one reasonable, sensible, effective law which could be enacted in each and every state, repealing existing legislation, and be backed up by appropriations sufficiently large to fully enforce it, I believe reliable seedsmen would have much cause for congratulation.

It has now been three and a half years since the date of the Boston meeting between seed analysts and seedsmen. The so-called "Boston Bill" was the result of that meeting and was a compromise between those of us who favored a law with a reasonable standard of purity and those who wanted every package of seed tagged. "Boston Bill" seemed to be quite a lusty infant at the time of his birth, but he hasn't grown much. He now looks to me like an orphan, and I question whether the seed analysts who helped with his "borning" will do much more for "Boston Bill."

The "Boston Bill" proposed no standards of purity, except freedom from certain obnoxious weeds, but since the date of the Boston meeting a number of state laws have been passed, most of which, I think, have established standards of purity, and many of which have established standards of germination.

Germination Standards.

You all know how we seedsman regard the requirement of some laws that seeds sold shall be labeled to show their germination. The testimony of nearly all seed expert analysts is against the reasonableness of such requirements, and practically all seedsmen and the most conservative seed analysts are agreed upon the fact that wide variations in tests on duplicate samples are obtained from well equipped and reliable testing stations. This fact, of itself, makes a germination clause in any seed law highly objectionable. It is like a law providing that goods must be sold by the yard, subject to test by an elastic yard-stick, which may vary all the way from 20 to 36 inches in length. It the people interested in the improvement of agricultural conditions will start a propaganda which will induce the farmer to test the germination of all seeds he uses in the same way that he has recently been testing his seed corn, this vexing question of germination in seed laws would soon be disposed of, for the reason that the occasional seedsman who is not careful to sell only seeds of reasonably high germination would very soon be put out of business. There would then be no more complaint on this score, and no more demand for such provisions in a seed law. In a case where it is so easily possible for the buyer to protect himself against fraud it seems unnecessary to burden the statute books of our states with legislation so difficult of enforcement, so uncertain in application, and so unfair to seedsmen as any law dealing with germination of seed must be. I feel that I am well within the facts when I assert that much over 99 per cent of the field seeds now sold by reputable seedsmen are of sufficiently high germination to produce a good stand when sown on a properly prepared seed bed, with reasonably favorable weather conditions. To subject a trade with such a record as this to the inconvenience and injustice attending a germination requirement seems unwise when the means of preventing a very occasional fraud lies so easily within the reach of every buyer.

Purity Standards.

I know that there are many serious objections which may be urged against standards of purity, but if we could have uniform laws containing standards somewhat similar to those contained in the Iowa law, and could have free and unrestricted trade in seeds above these standards, I believe the advantages to the trade would far outweigh the disadvantages. I believe the lack of standards of purity in the Boston Bill has been one reason for its not being more generally acceptable to legislators and to state seed officials. The Boston Bill has many excellent provisions which should be contained in any workable seed law, but I believe the Bill should be re-written to include standards of purity such as I have suggested, and should then be introduced and aggressively pushed in the legislature of every state at the earliest opportunity. The time for delay has passed, and if we can line up a united support among the seed trade for an aggressive and progressive fight in favor of reasonable legislation, and not confine ourselves to an ob-

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force. coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color, it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouillere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6 inch pot plant. From our own observation, we are inclined to consider this the best of all the whites. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

Our Staff of Salesmen will be in Attendance at the Convention and will be pleased to show you Samples of our many Specialties of which we will have a Complete Line on Exhibition

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

CATTLEYA MOSSIAE IN CALIFORNIA.



The accompanying illustration shows one of two exceptionally fine specimens of Cattleya Mossiae flowered by the Western Orchid Company and exhibited as a prime attraction in the show window of the handsome store of the California Florist on Geary street, San Francisco. The plant here depicted bore 90 flowers in a 22-inch pan, the blooms measuring eight inches across and of unusually fine color. The other plant was in a 24-inch pan and bore 150 flowers.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

The ANNUAL MEETING of the

FLORISTS' HAIL ASSOCIATION

Will be held at 9 a. m., Friday, August 22nd, in Committee Room C, of the Convention Hall of the S. A. F. and O. H., at Minneapolis, Minn.

JOHN G. ESLER, Secretary.

structive and negative attitude, I believe we can accomplish more good for the future of the seed trade in the next two years than we can ever hope for under our present program. It is only necessary to enumerate the highly unsatisfactory seed laws, which have been passed during the past year in many states, to realize that the fight has been going against us.

It is now almost impossible to determine, without very careful laboratory and legal investigation, whether any special parcel of seed may be offered and sold within certain populous and important states.

Good Bills and Bad.

Time is so important an element in the conduct of our business that we are very seriously hampered by the fact that these investigations take so much time that the opportunity for the sale of the goods is frequently lost before the necessary tests are completed. These conditions should be changed and if we want them changed for the better, and not for the worse, I believe we should start a genuine and wholesouled campaign in favor of proper and reasonable seed legislation. We should prove our faith by our deeds and put fair and honest seed laws into the hands of legislators who will agree to introduce the bills. We should explain the merits of these bills to seed officials and to agricultural committees, write letters to our correspondents asking their help, and really get behind and push the good work.

The people naturally distrust the men who oppose all reform measures affecting their business and yet offer nothing to correct the alleged abuses at which these measures are aimed. This attitude gives an untold and unfortunate advantage to the dreaming theorist who tries to bring down Heaven upon Earth by lassoing angels and cherubs, not realizing that every little street gamin has much of the angel in him if you will only give it room to grow.

The man who makes an unreasonable seed law isn't always a bad fellow, but he may not know much about the seed business. Let's hunt him up and tell him where he is wrong and what we can offer toward making a start at correcting those things in our business, which he believes to be wrong.

A Success.

When I offered the first draft of the Import Seed Bill for the consideration of the trade, five or six years ago, I received but little encouragement. Many of you feared that if we offered this Bill it would be amended until we would not know it. Your apprehension seemed justified by Senator Gronna's proposed amendments, but perseverance and team work finally brought success, and I think if those of us who have, at various times, helped toward the enactment of that law, had never done anything else for the good of our country, we might rest content in the knowledge that because of this law our country will, in the years to come, have fewer weeds and more clover blossoms.

Let us now take up in the same spirit the question of state laws and make an earnest and continous endeavor to do something worth while for the permanent good of American agriculture, by checking the sale of, and discouraging the use of inferior or harmful qualities of field weeds.

Even if, for a time, it may seem that such effort is, in some respects, contrary to our interest it will eventually benefit us and bring to us the personal satisfaction of having acted for the general good. Let us, in seed legislation matters, adopt the hackneyed but worthy motto: "Look up, and not down; forward and not backward, and lend a hand."

NEWS NOTES.

Boston, Mass.—The Massachusetts Horticultural Society will hold an exhibition of gladioli and phlox, Saturday and Sunday, August 9th and 10th. Other flowers, besides fruits and vegetables, will also be shown.

Rugby, N. D.—The "Rugby Greenhouse," N. P. Lindberg, proprietor, has now completed office building, boiler room and palm and fern and plant display houses and are now breaking ground for three more greenhouses, 83½ feet long.

Boston, Mass.—Wm. C. Bowditch has been awarded the sum of $3,600 for damages to the contents of his greenhouses on Warren street, Roxbury, caused by gas from a broken service pipe. Both the city of Boston and the Brookline Gas Light Co. are held liable in the sum of $1,800 each.

Millville, N. J.—The lease on the florist establishment of Mrs. Rae Henderson, on Seventh street, which was held by Ralph Parent was sold July 24th and was bought by Mrs. Henderson, which will thereby terminate the lease which would have expired next October. Mrs. Henderson is now in sole possession of the property.

Detroit—A very heavy rainstorm accompanied by a cyclonic gale last week destroyed the greenhouse plant of Geo. Browne. We all sympathize with him and his family most sincerely. His brother, Thos. Browne, with a much larger establishment next to him, only lost the lights out of the ventilators from five houses. Woodmere sent out a report that much damage has been done by hail coming from the same storm, yet this cannot be verified because all telephone service is cut off. Let us hope that damage is small.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD. An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..BODDINGTON'S CHRISTMAS WHITE. A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..ANGELINO. Self pink; new variety	.50	1.50	2.75	4.50
..CANARY. Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..FLAMINGO. Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..CHRISTMAS METEOR. Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..CHRISTMAS STELLA MORSE. Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..FLORENCE DENZER. Pure white	.25	.75	1.25	2.00
..LE MARQUIS. This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..MISS HELEN M. GOULD. White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..MISS JOSEY REILLY. Lilac very large flowers	.25	.75	1.25	2.00
..MRS. A. FARENWALD. Extremely large; dark pink. Very early	$0.75			
.MRS. E. WILD. Carmine or dark pink	.25	.75	1.25	2.00
..MRS. ALEX. WALLACE. Lavender; very scarce	.25	.75	1.25	2.00
..MRS. HANNAN. Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..MRS. JAMES WHEELER. Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..MRS. WM. SIM. Salmon pink	.25	.75	1.25	2.00
..MRS. GEO. LEWIS. Large, pure white, wavy flower	.25	.75	1.25	2.00
..MRS. W. W. SMALLEY. Satiny pink	.25	.75	1.25	2.00
..MRS. F. J. DOLANSKY. Daylight pink	.25	.75	1.25	2.00
..MRS. CHAS. H. TOTTY. Sky blue; late	.25	.75	1.25	2.00
..MRS. ZVOLANEK. Blue, variegated; good for variety	.50	1.50	2.75	5.00
..ORANGE BIRD. Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..PINK BEAUTY. Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..WALLACEA. Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..WATCHUNG. Pure white	.25	.75	1.25	2.00
..WINTER CHEER. Wavy, large white flower	.50	1.50	2.75	4.50
..WM. J. STEWART. Blue self	.35	1.00	1.75	3.00
..ZVOLANEK'S PINK. Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

The KENILWORTH Giant Pansy



Pansies in Separate Colors.

seeds are all grown by myself and are offered in the following mixtures and separate colors:

KENILWORTH STRAIN—The flowers are of perfect form and substance; many of the immense flowers are from 3½ to 4 inches; it is a striking collection of beautiful colors and markings, rich with shades of red, brown, bronze, mahogany and many others too numerous to mention.

KENILWORTH SHOW—An extra fine strain of large flowers; the immense flowers are of circular form and great substance; a beautiful collection of colors and markings.

KENILWORTH CUT FLOWER MIXTURE—Is a distinct class by itself, surpassing all other strains as a cut flower or for exhibition purposes, for inside or outside growing; the large flowers are carried erect above the foliage on heavy stems, 7 or 8 inches long, in the most graceful manner, and stand the hot, dry weather well.

MASTERPIECE—A remarkable type; the curled, wavy petals giving the flower a double appearance, its large flowers of great substance, on long, strong stems.

ORCHID FLOWERED, Mixed—A dwarf free bloomer with a range of delicate colors that do not exist in any other pansies, a remarkable combination of light rose, shell pink, blush mauve, fawn, light brown, orange and chamois.

NEW SEED NOW READY.

1000 seeds, 25c; 5000, $1.00; ¼-oz., $1.25; 1 oz., $5.00.

	1000 Seeds
Giant Adonis, light blue with yellowish white face, large dark blotch	$0.25
Giant Emperor William, ultramarine blue with purple violet eye	.25
Giant King of the Blacks, coal black	.25
Giant Lord Beaconsfield, violet upper petals shading to white	.25
Giant Yellow, pure golden yellow	.25
Giant Yellow, with dark blotch	.25
Giant White, with large violet center	.25
Giant Red, a fine mixture of red shades	.25
Giant, royal purple, fine large flower	.25
Giant, bronze and copper mixture	$0.25
Giant, light blue, sky blue	.25
Giant, dark blue, deep blue shades	.25
Giant Zebra, mixed shades, striped	.25
Giant McKinley, yellow, each petal blotched with a deep reddish brown	.25
Giant Psyche, ruffled violet white margin	.25
Giant Mad. Perret, red and wine shades	.25
The preceding 17 sorts mixed in equal proportions	.25
Any 5 pkts., $1.00; any 11 pkts., $2.00.	

Rainbow is a mixture of the most beautiful, gorgeous colors; blotched, striped, veined, margined, etc. With every $1.00 worth of pansy seed I will send 1000 of Rainbow free and with other amounts at like proportion.

Chas. Frost
Kenilworth, N. J.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ....

July and August Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK

W. B. WHITTIER & CO.,

SOUTH FRAMINGHAM . . MASS.

GROWERS OF HIGH GRADE NURSERY STOCK

LARGE ASSORTMENT

WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

GEO J PEARSON Pres & Treas WM J ZARTMANN V Pres & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape [illegible] Work

41st Street and Park Ave., NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

GREENHOUSES BUILDING OR CONTEMPLATED.

Carbondale, Ill.—E. W. Plater, one house.

Alliance, Ohio—H. T. Miller, one house.

Sylvian, Ore.—W. C. Hoffmann, addition 27 x 120.

Hardy, Neb.—Binding's Greenhouses, range of houses.

West Boylston, Mass.—Charles Potter, addition 30 x 90.

South Vineland, N. J.—William H. Ash, house 40 x 200.

Wooster, Ohio—F. H. DeWitt & Co., Wayne street, range of houses.

Hogan's Station, Portland, Ore.—Martin Winch, range of houses.

Wilkes-Barre, Pa.—Gottlieb Bauman, 358 S. Grant street, house 45 x 250.

Crescent, Mo.—Mosgiel Gardens, two houses, one 40 x 100, one 20 x 100.

Springfield, Ohio—A. S. Finfrock, McCreight avenue, two houses, each 26 x 100 and conservatory 15 x 17.

Atlanta, Ga.—J. S. Comsey, house 40 x 100; Alto-Vista Floral Co., house 25 x 100; Atlanta Floral Co., range of rose houses.

PATENTS GRANTED.

1,068,848. Fruit and Flower Cutter. Charles F. Billau, Cedar Rapids, Iowa.

Chicago, Ill.—The Peters & Reed Pottery Company of South Zanesville, Ohio, have established a sales agency in the rooms of the Illinois Flower Box Company, 108 N. Dearborn street.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 &29 OCEAN ST., ∴ BEVERLY, MASS.

PHOSPHORUS

A seven-inch potfull of Davidge's Special Phosphorus mixed with [illegible] wheelbarrow of soil when planting or potting, then, when roots are established, a small pailful scattered over 500 square feet every two weeks before watering will grow vigorous flowers and plants. Sample bag [illegible] lbs.) $5.50. Over 500 lbs., at the rate of $40.00 per ton.
WILLIAM M. DAVIDGE.
P. O. Box 5. - - Brooklyn, N. Y.

WELL ROTTED HORSE MANURE
DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY
NEW YORK STABLE MANURE CO.
273 Washington St., - - Jersey City, N. J.

Aphine
The Insecticide that Kills plant Lice of every Species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE
For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE
For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE
For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana
Twelve percent Nic. Fine
SPRAY AND FUMIGANT

$1.25 per quart—$4.00 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.
Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon KIL-WORM makes 50 gallons liquid when mixed with water.

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL-WEED diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



SLUG-SHOT
USED FROM OCEAN TO OCEAN FOR 29 YEARS.
Sold by Seed Dealers of America.

Save Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in pkgs., [illegible] at regular prices. Write for free pamphlet on Blight and Insects.
B. HAMMOND, - Fishkill-on-Hudson, New York.

When writing to Advertisers kindly mention Horticulture

Walter Mott's Notes by the Way

Newburgh, N. Y.

Chas. L. Masten, the veteran seedsman has the sympathy of the trade in the loss of his mother by death as the result of an accident. Some very beautiful floral pieces were sent from members of the craft.

Kingston, N. Y.

Wm. Williams is figuring on tearing down and rebuilding several of his older houses, to keep up with the times.

Fishkill, N. Y.

Lou. Wood of Wood Bros. say the most remarkable feature of their business is the late rush orders which seem to lengthen out each year longer than previously. This necessitates considerable maneuvering and such a thing as an empty bench is now unknown. They will not be affected by the change of name from Fishkill-on-the-Hudson to Beacon as recently made. Benjamin Hammond of the noted Paint Works expects their address will not be changed for some time. It is expected to cause some confusion especially to foreign correspondents.

Marlborough, N. Y.

Velie Bros. expect to grow their usual quantity of paper white narcissi, but have cut down on Roman hyacinths. Comet is considered the most profitable tomato for indoor culture. States Searles has practically abandoned his greenhouses, devoting his energies to the auto business.

Milton, N. Y.

P. Lyon finds Enchantress still his best carnation, the soil being well suited to it, for it is as vigorous and prolific as when first sent out.

INCORPORATED.

Cleveland, Ohio—James Eadie Co., florists, capital stock, $10,000. Incorporators, M. C. Maher, V. J. Free, H. B. Wright and R. L. Toben.

Columbus, Ohio—Graff Bros. Company, florists and nurserymen, capital stock, $2,500. Incorporators, Theresa Flynn, Ben Flynn, Charles H. Wheeler, Edward L. Taylor, Jr., and Nathan Gumble.

Cincinnati, Ohio—The J. Chas. McCullough Seed Co., capital stock, $500,000. J. Chas. McCullough, president; E. McCullough, secretary; H. D. Brown, vice-president; Robert O. Strong, treasurer. The J. Chas. McCullough Seed Co. has succeeded to the entire seed and bag business of J. Chas. McCullough, seedsman, taking over the large warehouse at Fifth, Lock and Eggleston avenue, and continuing the sales department at the present location, 230 and 232 East Fourth street, which has just been completely refitted with modern furniture and fixtures.

Clinton, Ind.—Herman G. Hershey has taken over the Sunnyside Greenhouses, and has rented his plant at Marshall, Ill., to Miss Blanche Williams.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

TRIUMPH OF THE GIANTS MIXED

Robust grower; flowers of extra large size; many beautiful, rich and rare shades. Half trade pkt., 60c.; trade pkt., $1.00; $1.75 per ¼ oz.; per oz., $6.00.

	Tr. pkt.	Oz.
Bugnot, Odier and Cassier	$0.50	$4.00
Giant Trimardeau. Mixed	.30	1.25
Mad. Perret	.50	2.50
Masterpiece	.50	4.00
Odier or Blotched	.50	3.00
Parisian Large Stained	.40	2.00
Finest English Mixed	.25	1.00

GIANT PRIZE PANSIES

In Separate Colors

Please do not compare these with the ordinary Giant Trimardeau; the seed we offer will produce flowers of much heavier texture.

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

Also all other Seasonable Seeds and Supplies for the Florist. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market Street Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

DEFECTIVE LILIES.

We have been having trouble with our Giganteum lilies. We plant about fifteen hundred every ten days and up until the last two batches the blooms were splendid, stems of fair length and foliage very good. The last two batches have good foliage, a very short stem and the bud will develop to about one-half inch and then blight. I would think it was cultural reasons but the plants sitting adjacent will develop a good stem and a good flower. Fully fifty per cent of the last batch went bad. Can some of your readers give a reason or suggest a remedy?

I would suggest light shading and keep in cool, airy side bench with front ventilation and not too much water at the roots, or frames outside with lath shading. We always find good results in that way. It will give good stems and flowers.

H. H. Bartsch.

Waverley, Mass.

All agents of European seedsmen now in this country are unanimous in stating that a decided shortage exists in seed crops of carrot, beet and Golden Self-Blanching celery. Late peas are slightly short. All other seed crops are reported as much better than they were last year.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

CELERY PLANTS

Very large plants Winter Queen at $2.00 per 1000.

W. & H. F. EVANS

Rowlandville, Philadelphia

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice

On and after September 1, 1913 our address will be

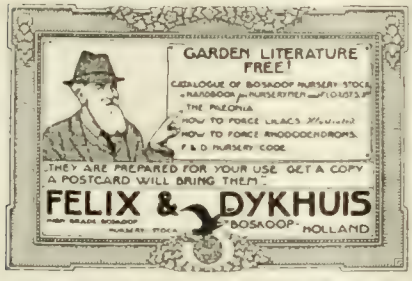
98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.



NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Co p.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

BULBS ARRIVING

LILIUM HARRISII (True Bermuda Easter Lily)

9-11 in., per dozen, $3.75; per 100, $23.00
7- 9 in., per dozen, 1.35; per 100, 8.75

Our stock comes direct from one of the best growers in Bermuda, to whom we pay special prices to secure extra good bulbs. Our stock this year is the best in appearance we have seen in a long time.

Amaryllis Johnsoni .....$2.50 dozen
Amaryllis Vittata Hybrids... 3.50 dozen

Oxalis, Bermuda Buttercup, per 100, $1.00; per 1000, $8.50.

Pansy Seed, Vick's Giant Superb, ¼ oz., 75c.; ½ oz., $1.35; 1 oz., $5.00.

WRITE FOR FALL CATALOG.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO.

SEASONABLE **SEEDS** AND **Sundries** FOR THE FLORIST

FANEUIL HALL SQUARE

BOSTON

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ¼ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all the leading varieties of Giant Trimardeau.

Write for Prices.

FREESIA

REFRACTA ALBA:	100	1000
⅜ to ½ in. diameter	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
PURITY, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co

"THE MOST RELIABLE SEEDS"

53 Barclay St., NEW YORK

T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880. Aldine 881. Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 218c
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Syracuse, N. Y.—Frank Freeman, florist on East Genesee street, has gone out of business.

Springfield, Ill.—David Allchin, 125 North Columbia avenue, has leased the establishment of E. Bennett.

Indianapolis, Ind.—Pandel Bros., of Washington street, have closed their store and expect to locate elsewhere.

Fall River, Mass.—Frank Buffington has turned over the store business to F. Sullivan, who has been his manager for many years.

STEAMER DEPARTURES

Allan.

Virginian, Montreal-Liverp'l...Aug. 12
Ionian, Montreal-London.....Aug. 17
Parisian, Boston-Glasgow....Aug. 22

American.

New York, N. Y.-Shampton...Aug. 15
St. Paul, N. Y.-Shampton....Aug. 22

Atlantic Transport.

Minnehaha, N. Y.-London....Aug. 16
Minnewaska, N. Y.-London...Aug. 23

Cunard.

Pannonia, N. Y.-Mediterr'n...Aug. 12
Ausonia, Montreal-London....Aug. 16
Laconia, Boston-Liverpool....Aug. 20
Lusitania, N. Y.-Liverpool...Aug. 13
Mauretania, N. Y.-Liverpool...Aug. 20

French Line.

La Provence, N. Y.-Havre....Aug. 13
Rochambeau, N. Y.-Havre....Aug. 16
France, N. Y.-Havre.....Aug. 20

Hamburg-American.

Cincinnati, Boston-Hamburg...Aug. 16
Amerika, N. Y.-Hamburg....Aug. 21
Pretoria, N. Y.-Hamburg....Aug. 23

Holland-America.

Rotterdam, N. Y.-Rotterdam..Aug. 12
Potsdam, N. Y.-Rotterdam....Aug. 19

Leyland.

Bohemian, Boston-Liverpool..Aug. 16
Winifredian, Boston-Liverp'l..Aug. 23

North German Lloyd.

K. W. der Grosse, N. Y.-Br'm'n..Aug. 12
Fr. der Grosse, N. Y.-Br'm'n..Aug. 19

Red Star.

Finland, N. Y.-Antwerp.....Aug. 16
Lapland, N. Y.-Antwerp.....Aug. 23

White Star.

Cymric, Boston-Liverpool....Aug. 12
Adriatic, N. Y.-Liverpool....Aug. 14
Oceanic, N. Y.-Southampton...Aug. 16
Megantic, Montreal-Liverp'l..Aug. 16
Celtic, N. Y.-Liverpool.....Aug. 21
Olympic, N. Y.-Southampton..Aug. 2

NEW FLOWER STORES.

Hamilton, Ohio—Karl W. Heiser.

Fargo, N. D.—Smedley Floral Co., 69 Broadway.

New Orleans, La.—The Orchid Shop, 141 Carondelet street.

Hutchinson, Kan.—Kline Bros., Rorabaugh-Wiley Building.

Norwood, Ohio—Ed. Schwarz, son of Henry Schwarz, of Cincinnati.

Waterloo, Iowa—Charles Sherwood & Sons, 320 E. Fourth street.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tissuony Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal supervision

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

PHILADELPHIA NOTES.

Business misfortune has overtaken an esteemed retailer, George S. Faulkner, 15th street above Walnut. A meeting of the creditors will be held in Attorney Amram's office, R. E. Trust Building, Broad and Chestnut streets.

Alvah R. Jones, chief of staff in the wholesale commission house of Philadelphia, and C. H. Grakelow, a distinguished retailer up-town, sailed at high noon on the 9th inst. from New York for a month's vacation in the West Indies, South America and Panama.

B. Eschner, of M. Rice Co., reports that the advance sale of red cape flowers, red ruscus, red frieze and Japanese chenille is unprecedented. He attributes this to the high price of immortelles due to the short crops and the combination of the European growers. From present indications immortelles will cost more than ever before.

A million dollar pier from the viewpoint of a garden lover is the "Garden Pier" at Atlantic City. Louis Burk, our dear, delightful democratic orchid enthusiast, is the power behind the throne. Samuel J. Irvine, his able superintendent, hopes to send HORTICULTURE a good picture of this innovation one of these days. Orchids were air plants long before aeroplanes were; also safer, and they smell better. And there's lots of hot air for them to thrive on at Atlantic City.

RICE'S
EXHIBIT AT THE
S. A. F. CONVENTION
WILL BE
THE BEST YET
DON'T MISS IT
M. RICE CO.
1220 Race St., Phila., Pa.
THERE'LL BE SOMETHING TO PUZZLE ABOUT.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

THE FUNERAL SPRAY.

The making of the funeral spray of today, compared to the spray of former days, goes to show how much we are steadily advancing in our ideas and coming nearer to nature in the arrangement of a few dozen cut blooms when intended for funeral purposes.

The methods of the old school have been thrown in the discard long ago, and now we have a handsome loose bunch of flowers carelessly put together and held lightly at the stems with a piece of wire, or a few turns of thread, then a few pieces of adiantum or asparagus put through and it is finished, fit to send anywhere and capable of standing all criticisms.

Let us now turn back to the old-fashioned spray, and note the difference in its construction, also appearance when held alongside the up-to-date spray, and note how the latter day shows up far better with less material than the old style make does with twice the amount; not mentioning the difference in time, if that counts for anything.

The old "flat bouquet" suffers in comparison with modern work, in the same degree, where flowers are loosely arranged and simply tied with a piece of wire at the bottom, all done in ten or fifteen minutes, and a far better job than the crude and clumsy work that takes probably three-quarters of an hour or more to make, and which is still being carried on in a few unprogressive flower shops. I trust they will try the more modern way for their own benefit and that of their customers, at the same time saving flowers, time and money.

MR. STOREMAN.

FLORISTS' TELEGRAPH DELIVERY.

Advertising this facility is up to the florists themselves. The grocer, butcher and coal dealer will not be able to tell the public that the florist can deliver flowers on short notice almost everywhere. Help to advertise this facility and whether you are sending the order or getting it from some out-of-town florist to deliver, do your very best with same and let it be a credit to the florist trade. This will help to advertise and increase the annual sale of flowers considerably. The Florists' Telegraph Delivery is doing a great deal to work this field up and bring it to the high standard it should have been long ago.

The advertising of this facility should be carried on all your stationery and go out with every letter you mail. Also include it in your newspaper ads. The public, of which 90 per cent do not know the existence of a telegraph delivery system used by florists and the 10 per cent who do know it, think it is only for funerals or steamer deliveries, but just think how many friends, relatives, etc., are away from home and taken sick, to whom the people at home will only be too glad to have some nice fresh flowers delivered wherever they are. Still there are so many occasions where flowers could be sold if the florists would install a little more up-to-the minute business ways.

ALBERT POCHELON,
Detroit, Mich. Sec'y.



CHICAGO NOTES.

Henry Wietor and C. A. Alles are spending a week at Port Washington, Wis.

Miss Gertrude Lewis is spending a well earned vacation in Winnipeg, Man.

Mr. and Mrs. C. L. Washburn returned August 4th from a month in the west.

The Misses Nettie Parker and Olga Tonner are taking a lake trip to Sault Ste Marie.

Phil Schupp reports lily of the valley meeting an unusually good demand, July sales being equal to those of June.

Geo. Economopulus of the Alpha Floral Co., and Andrew Chronis, who operates the cut flower department at The Fair, are spending a month in Michigan.

A. Lange and family have returned from a vacation in the fruit belt of Michigan. Mr. Lange was very favorably impressed with the opportunities for growing and marketing fruit in that country.

Mr. and Mrs. Frank Oechslin are on a western trip. A card from them written at the Yellowstone Park says they are having a fine time, but were surprised the morning of July 30th to find two inches of snow on the ground. The temperature was 32 degrees.

Rather small or medium sized baskets, filled principally with out-of-door flowers, and suggestive of an old-fashioned garden, at one down-town store sell readily. Each day from four to six dozen of these baskets are sold, showing that they please the public taste. Both the baskets and the nosegays as offered in the best stores here all the summer, have been reminiscent of a past time, yet the work was so carefully done and the blending of colors so artistic that they appeared as strongly to the young, as to the older buyers.

Visitors: G. Papas, Des Moines, Ia.; C. S. Ford, Philadelphia; John Faber, Kankakee, Ill.; Max Morris, New Orleans, La.

During Recess

The Washington-Baltimore Outing.

Members of the Florists' Club of Washington, the Gardeners' and Florists' Club of Baltimore, and Kallipolis Grotto, No. 15, accompanied by their families and friends, spent a very enjoyable day at Chesapeake Beach on Tuesday last on the occasion of the annual joint outing of the three organizations. While the Baltimoreans beat the Capital City florists at baseball with a score of 4 to 1, the latter took the bowling honors and thus strengthened their chances of victory at the Minneapolis Convention. In the ladies' bowling (singles) tournament, Mrs. Bauer, of Baltimore, was the winner with Mrs. Simmonds, of Washington, second, and Mrs. George Cooke, also of Washington, third.

Considerable interest was also taken in the quoit events, Messrs. Fritz, Kearns and Cook of Baltimore being winners of the singles, and George C. Shaffer and George H. Cooke, of Washington, taking the prizes in the doubles. Washington florists also won the 100-yard dash for members of the trade, George C. Shaffer running first, and R. L. Jenkins, second.

The results of the other events were as follows:

15 yd. dash for girls under 7—Elmira McLennan, 1st; Helen Williams, 2nd; Evelyn Myers, 3rd.

15 yd. dash for boys under 7—Eugene Ledenne, 1st; Lloyd Greble, 2nd; Bernard Dove, 3rd.

25 yard dash for girls under 12—Clara Myers, 1st; Helen Nugent, 2nd.

25 yd. dash for boys under 12—Brant Mercer, 1st; Henry King, 2nd.

Egg race for ladies—Max Niswander, 1st; Miss W. H. Labofish, 2nd; Mrs. B. Wilson, 3rd.

Three-legged race for boys—Ralph Zea and William Simmonds, 1st; Lawrence Barney and Louis Miller, 2nd.

50 yd. dash for girls under 16—Rose Friedberg, 1st; Helen Rowe, 2nd.

50 yd. dash for boys under 16—Louis Miller, 1st; Ralph Zea, 2nd.

Pipe race for men—F. S. Schippe, 1st; J. H. Faunce, 2nd.

50 yd. dash for married ladies—Mrs. J. Crawford, 1st; Mrs. Max Niswander, 2nd.

100 yd. dash for boys under 16—Louis Millard, 1st; Ralph Zea, 2nd.

50-yd. dash for men—B. Daniel, 1st; Oscar B. Johnson, 2nd.

50 yd. dash for girls over 16—Josephine Zanten, 1st; May Niswander, 2nd.

Sack race for boys under 16—Ralph Zea, 1st; Richard Carnago, 2nd.

Three-legged race for men—Gene Zea and W. S. Lingebach, 1st; George O'Brien and George Shipe, 2nd.

THE NEW SEASON GOODS

Are beginning to arrive. Now, while you have a little let-up, is the time to look them over. We can send you some bewitching samples if you just speak up. There is money this hot weather especially in the use of Artificial Flowers as Decorative Accessories to Fresh Material. We have Callas, Lilies, Dahlias, Carnations, Orchids, Roses, Wistaria, Etc., of Crepe. Preserved Magnolia Leaves, Green and Brown ; Adiantum, Asparagus Sprengeri, Etc. New Style Standing Sheaves of Wheat

Write for Splendid Illustrated Catalogue "Our Silent Salesman.". 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO., The Florists' Supply House of America **1129 Arch St., Philadelphia, Pa.**



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition — fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.

553 LAKE STREET KENDALLVILLE, IND.

50-yd dash for ladies—May Niswander, 1st; Alice Reid, 2nd.

50-yd sack race for men—W. S. Lingebach, 1st; O. B. Robinson, 2nd.

Songs and dances by the pupils of Miss Ida Hayes, comic skits by William Scantlebury, Jr., German comedian; recitations by I. S. Goldsmith, and solos by Milton J. Fillius and Mrs. Clara Naecker, formed the entertainment given in the dancing pavilion.

Between six and seven o'clock in the evening the Baltimoreans entertained their friends from Washington with a band concert at the Belvidere Hotel.



JOINT COMMITTEE OF THE WASHINGTON-BALTIMORE OUTING.

The four gentlemen in front are (reading from left to right) N. S. Hammer, Ed. S. Schmid, Geo. C. Schaffer and Capt. W. H. Ernest.

PERSONAL.

Miss Florence Gude, of Congress Heights, D. C., will spend a few weeks in New York City.

Mr. and Mrs. Martin Wax of Boston sailed for Europe on the Franconia, August 5th. This is part of their honeymoon trip.

Wm. Gammage of London, Ont., Can., was seriously injured, with several ribs broken and many bruises, in an automobile accident last Sunday.

A. Leuthy, of Roslindale, Mass., writes from Ghent that thus far he has encountered nothing but rainy and cold weather on his trip and that azaleas and other plants are in great need of sunshine to set their buds, which are as yet very backward. The exhibition in Ghent, he says, is even better than the Brussels show and is very well attended.

Detroit visitors: Sam. Seligman, New York; J. Miller of Julius Roehrs Co., Rutherford, N. J.; Christ. Winterich, Defiance, O.

Boston visitors: C. L. Linz, Washington, D. C.; H. H. Barrows, Whitman, Mass.; M. J. Pope, Naugatuck, Conn.; P. Welch, Old Orchard, Me.; Jos. Kelly, London, Eng.; Mr. Weisse and Mr. Sachs, both of Quedlinburg, Prussia; S. S. Pennock, Philadelphia, Pa.; Geo. H. Dicks and Mr. Deal, London, England.

ASTERS, 100, $1.00—$3.00
You will find our stock of excellent quality; plenty to fill all orders.
GLADIOLUS, 100, $3.00—$5.00
Splendid stock; all the best varieties.
BEAUTIES, doz., $1.00—$3.00
SWEET PEAS. 100, $0.75—$1.00
GREEN GALAX, NEW CROP
1000 $1.00, per case, $7.50
The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists
IF YOU want to find a market for your product
want a regular or special supply of the product of the best growers
Consult the Advertisements on these Wholesale Flower Pages
The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS
FOR FLORIST'S USE **R** THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

The J. M. McCullough's Sons Co.
WHOLESALE COMMISSION FLORISTS
CONSIGNMENTS SOLICITED
Special attention to shipping orders. Jobbers of Florists' Supplies, Seeds and Bulbs. Price list on application.
Phone Main 581 316 Walnut St., Cincinnati.

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI			CHICAGO			BUFFALO			PITTSBURG		
	Dec. 2			August 4			August 4			July 28		
Roses												
Am. Beauty, Fancy and Special	40.00	to	15.00	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Extra	8.00	to	10.00	12.00	to	15.00	10.00	to	12.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	5.00	to	8.00	6.00	to	10.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	2.00	to	3.00	2.00	to	4.00
Killarney, Extra	4.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Richmond, Hoffmgdon, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	.....	to	.....	6.00	to	8.00
" " " " Ordinary	1.00	to	3.00	3.00	to	4.00	.....	to	.....	00	to	4.00
Carnations, Fancy Grade	.....	to	1.50	2.00	to	3.00	1.00	to	1.50	1.50	to	2.00
" Ordinary	.....	to	1.00	1.00	to	2.00	.50	to	1.00	....	to	1.00
Cattleyas	.....	to	.....	.....	to	50.00	35.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	4.00	to	5.00	4.00	to	6.00	2.00	to	4.00	3.00	to	6.00
Asters	.....	to	.....	[illegible]	to	2.00	.60	to	2.00	.75	to	3.00
Daises	.....	to	.....	.15	to	.25	.40	to	1.00	.....	to	.....
Sweet Peas	.....	to	.....	.25	to	.75	.20	to	.50	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Allantum	.....	to	1.00	[illegible]	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.00	.....	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings 100	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Sprengeri 100 lbs	15.00	to	25.00	[illegible]	to	50.00	25.00	to	35.00	40.00	to	50.00

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE

Flower Market Reports

BOSTON Business is very poor, even for midsummer. There is practically nothing being done locally and the shipping trade to summer resorts is much reduced from last year in volume. The practice of many large growers now of shipping direct to the beach and mountain resorts no doubt has some effect on the amount of business passing through the wholesale markets of the city. Beauty roses, lily of the valley, etc., are in full supply but the call is light. Colored asters are moved with difficulty and these together with the accumulating gladioli are the worst load the wholesalers have to struggle with. Sweet peas are very abundant, quality very nice and price very low.

BUFFALO The supply of stock has shortened up considerably for the past two weeks and there has been a shortage at times on good roses, especially Maryland and Kaiserin. Some good Double White Killarney are had and fill the bill. There has been only a fair supply of early asters which are not good.

CHICAGO The only flowers in really short supply are good white roses. The hot weather has made this stock smaller than usual even for mid-summer. The flowers most in evidence this week are asters and they are coming in, in such quantities that the market is over-supplied. They average quite small and it is only the largest that bring a price. Many asters are so small that the retailer takes a risk even at five cents a bunch. Large flowers are expected in another week. Lilies are still scarce. Gladioli, of the mixed and practically worthless sort are here, and as in past years detract from the value of the better sorts by putting them all in disfavor. American Beauties are in fair supply and new stock is considered good for the season. Carnations are not missed quite so much since asters made their appearance. Smilax is scarce and small. The opinion quite generally prevails that business this summer has not been so hopelessly dull as is usually the case. The increase does not seem to be along any particular line nor because of any special reason, but just because people continue to buy where they formerly did not. The retailers say that July was quite a busy month and August is starting in about the same. Sales are not in large amount but there is something to keep folks busy all the while.

CINCINNATI The market is firm. There is no lack of stock of any kind. In fact since the last report the supply has increased if anything. A good active demand continues, but is not sufficient to take up all the receipts. Fair prices prevail for the stock that is sold. The better roses find ready sales, but the shorter grades must often be jobbed or sold at cut prices. Gladioli are really the leading flower in the market and their quality runs good. Asters are on the increase. Each day is bringing larger and better receipts. Up to this time the good stock has sold easily. The poorer grades met with, at the best, only a slow market. All lilies are quickly taken up each day. Very fine hardy hydrangeas are offered.

DETROIT While trade reports at this time of the year are rather monotonous and not very bright, yet the amount of business done during the past week was not bad—in fact encouraging. The best sellers now are speciosum and longiflorum lilies, as also America gladioli; other staple articles, principally roses, move slowly because of their poor keeping qualities and small size.

PHILADELPHIA Asters are very plentiful. Good ones sell pretty fair, but there is a big proportion of lower grade, a good deal of which even the fakirs refuse to take at the week-end at any price. American Beauty roses are also in good supply. The locals would go better if the quality would stand the test. As it is, the eastern stocks still have the call, generally. Roses are selling better, but it is hard to move the shorts. Gladioli were never so plentiful in the history of the trade. Fine stock, but overdone for the present. Greens of all kinds more than enough.

(Continued on page)

1914 NEWS

Killarney Brilliant



The sensational new Killarney Sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years. Booking orders now.

GRAFTED, $7.50 per doz., $35.00 per 100, $150.00 per 500, $300.00 per 1000.

OWN ROOT, $6.00 per doz., $30.00 per 100, $125.00 per 500, $250.00 per 1000.

Delivery During March.

Also scions for grafting in 1000 to 5000 lots at $200.00 per 1000. Special prices in larger quantities. Delivery in December.

MATCHLESS

The splendid new white Carnation for 1914. Booking orders now. Deliveries can be made December, 1913, on the early orders. $12.00 per 100, $100.00 per 1000.

We guarantee not only the quality of our plants, but their safe delivery by express.

RIBBONS and SUPPLIES

Many new patterns in exclusive ribbons. Write us for prices on these and on supplies.

During August we close at 5 P. M.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N. W.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON August 7			ST. LOUIS August 4			PHILA. August 4		
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	4.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Richmond, Hillingdon, Extra	.50	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Maryland, Ward, Taft, Chatenay, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00
" " " " Ordinary	.50	to	2.00	3.00	to	4.00	.50	to	2.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	1.00	to	1.50	.50	to	1.00
Cattleyas	25.00	to	35.00	40.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	4.00	to	6.00	8.00	to	10.00	4.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	2.00	to	3.00	2.00	to	4.00	.50	to	4.00
Asters	.25	to	1.50	1.00	to	2.00	.25	to	.50
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.25	to	.50
Carnations	8.00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 / 609 MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses,
Southern Smilax, Galax and Leucothoe,
Preserved and Fresh Cut
Cycas and Palmetto.
Tel 1519 / 5883 Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. • • • • • BOSTON
Telephone, Main 59

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes. The HOME OF THE LILY
by the 100, 1000 or 10,000
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 789 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Aug. 2 1913	First Half of Week beginning Aug. 4 1913
American Beauty, Fancy and Special	10.00 to 15.00	15.00 to 20.00
" " Extra	6.00 to 8.00	8.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.75 to 1.00	.25 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.75 to 1.00	.25 to 1.00
Maryland, Ward, Taft, Carmot, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS
34 West 28th Street, New York
Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. - - - NEW YORK CITY
Special Attention to the Shipping Trade

BUY
BOSTON
FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 187)

NEW YORK Very little is happening in either wholesale or retail circles that is worth recording, at the present time. In this respect the situation is identical with that at the same date in former years, so no comment is called for and no deductions are worth the thinkng out. There are lots of asters and gladioli and they bring varying prices according to fineness of quality and the momentary emergency. Roses, lilies, lily of the valley and all the rest are also subject to the exigencies of immediate needs and this is all that makes existence bearable for the wholesaler as there is no steady current of demand for anything and consequently no bed-rock level on which values may be based. Quality is of the usual summer standard—excellent on a few things specially adapted to the climatic conditons and far below zero on the balance. Little change is likely until September and improvement may be still longer deferred.

ST. LOUIS The market is about as reported last week. Trade is principally made up of work for funerals and it ends with that—so the commission men report that only the lighter colored flowers move. Gladioli and Beauties are about the only flowers that come in which class with good quality, and these move well at any time. Carnations are poor in quality and not many are coming in. There are a good many asters coming in but only the best sell well. Hydrangeas are used up in funeral work; outside of this they have no demand. Smilax is very scarce; other greens in plenty and demand good.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 2 1913			First Half of Week beginning Aug. 4 1913		
Cattleyas	15.00	to	25.00	15.00	to	25.00
Lilies, Longiflorum	1.00	to	3.00	1.00	to	3.00
Lily of the Valley	1.00	to	3.00	1.00	to	2.50
Gladioli	.50	to	1.50	.50	to	1.50
Asters	.50	to	1.50	.50	to	1.50
Daises	.....	to	.50	.....	to	.50
Snapdragon	1.00	to	2.00	1.00	to	2.00
Sweet Peas (per 100 bunches	1.00	to	2.00	1.00	to	2.00
Gardenias	5.00	to	8.00	5.00	to	8.00
Adiantum	.50	to	1.00	.50	to	1.00
Smilax	6.00	to	10.00	8.00	to	10.00
Asparagus Plumosus, strings (per 100)	35.00	to	40.00	35.00	to	40.00
" " & Sprei (100 bunches)	10.00	to	20.00	10.00	to	20.00

CINCINNATI PERSONALS.

E. Buschle of C. E. Critchell's, is enjoying his vacation during the current fortnight.

Mr. and Mrs. L. H. Kyrk have returned from the north after two weeks' sojourn there.

Mr. and Mrs. Gus Adrian have gone to their cottage at Cheneaux Islands for the balance of the summer.

Visitor: Mr. Heller, New Castle, Ind.

NEWS NOTES.

Northumberland, Pa.—E. H. Luckhart has added a handsome concrete office and workroom to his greenhouses.

Cleveland, Ohio—David Charlesworth has retired from the firm of D. Charlesworth & Son, and has turned the business over to his son, Lloyd F. Charlesworth.

Buffalo, N. Y.—F. C. Brown, formerly of S. A. Anderson's retail store, has taken a position with the J. M. Gasser Co., of Cleveland, O.

Edw. Slattery of W. J. Palmer's, has succeeded the firm of Clements & Co., Main and Utica streets. The trade wishes Mr. Slattery every success.

E. C. Brucker has returned from a vacation at Muskoka lakes, and while there saw some excellent fishing. As for gaining weight, nothing doing.

Minneapolis Convention Number

Will be issued August 16. Goes to press, August 13 and 14. Will introduce you to a fresh field for business enterprise and a new line of prospective customers.

Will Be Circulated Where It Will Do You Good

SEND COPY AND INSTRUCTIONS QUICK
LAST CALL!!

DON'T MISS IT

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston
For page see List of Advertisers

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus plumosus seedlings $1.00 per 100; $6.00 per 1000. $50.00 per 10,000 COLLINGDALE GREENHOUSES, Collingdale, Pa.

Asparagus plumosus, 3-in., $4.00 per 100. A. Sprengeri, 3 in., $2.00 per 100. Strong plants. Cash please. J. W. MILLER, Shiremanstown, Pa.

6000 Asparagus Sprengeri, 2-in. pots, $4.50 per 100, $40.00 per 1000. 4-in. pots, $6.00 per 100, $50.00 per 1000.
White and Yellow Shasta Daisies, 2½-in. topped two and three times, $2.00 per 100.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of sot, $2.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Barclay Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Angelo Rossi & Son, 53 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, sizes and prices listed on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenna, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia
For page see List of Advertisers.

Folding cut flower boxes the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Potter, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

Lemon Valley Seed Co., Rochester, N. Y.
Lemon Harrisii and Auratum Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK [illegible]

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
[illegible] Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dolansky & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

[illegible]
New Carnation The Herald.
For page see List of Advertisers.

FIELD-GROWN CARNATION PLANTS FOR IMMEDIATE DELIVERY.
[illegible] $7.00 per 1000.
FRANK P. PUTNAM,
P. O. Box 12 LOWELL, MASS.

Carnation plants from field, $50.00 per 1000; $6.00 per 100. Cash. Mrs. Ward, Dorothy Gordon, Sangamo, Enchantress, Winsor and White Enchantress. Joy Floral Co., Nashville, Tenn.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Guilford, Ct.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM CULTURE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect Chrysanthemum flowers, showing that not as much pains and practice, but in plain course of procedure are the desired results attained. Illustrated. 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100, $20.00 per 1000. R. C. $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CROTONS

Robert Craig Co., Market and 49th St., Philadelphia, Pa.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Siebrecht & Wadley, 31 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

E. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

J. Hutchison & Co., 17 Murray St., N. Y.
Ferns in Flats.
For page see List of Advertisers.

For List of Advertisers See Page 163

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

William M. Davidge,
P. O. Box 5, Brooklyn, N. Y.
Phosphorus.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Shell Marl Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GARDENIAS

Gude Bros. Co.
1214 F. St., Washington, D. C.
Immediate Sale of Roses and Gardenias.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

GLASS—Continued

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil Worm and Kil Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot
For page see List of Advertisers.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, postpaid to any address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

Pansy Seed—"Mile High" Strain, the result of years of selection and the addition of the best from numerous sources. Colors, size and habits, extra good. Trade Pkt. $1.00; 6 Pkts., $5.00; 12 Pkts., $9.00. THE PARK FLORAL COMPANY, Denver, Colo.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. AND 5c. PER STEM.

We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 5c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of other stock. HENRY FIELD SEED CO., Shenandoah, Iowa.

PICKA CYPRESS BENCHES

A. J. Smith Company, East Bloomfield, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

Frank Oeschlin,
4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMULAS

Primula obconica and Primula chinensis, best varieties, at $3.00 per 100; $25.00 per 1000. Cash please. J. H. FIESSER, North Bergen, N. J.

PUTTY

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—Continued

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Gray Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

For List of Advertisers See Page 163

SEEDS—Continued

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 72 Cortland St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Rocky Mountain Columbine Seed (Aquilegia Coerulea). The Colorado State flower. True to type. Seed grown from collected plants and we grow no other variety. New crop now ready. $1.00 per oz. Write for prices in large quantity. THE PARK FLORAL COMPANY, Denver, Colo.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

R. & J. Farquhar & Co.,
6 & 7 South Market St., Boston, Mass.
Pot-Grown.
For page see List of Advertisers.

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

W. & H. F. Evans, Rowlandville, Pa.
Celery Plants.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker City Machine Works,
Richmond, Ind.
20th Century Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

ANNUAL MEETING.

Florists' Hail Association, J. G. Esler, Sec.
For page see List of Advertisers.

NEW FRENCH HYDRANGEAS.

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
For page see List of Advertisers.

NEW GERANIUM MARYLAND.

R. Vincent, Jr., & Sons Co., Whitemarsh, Md.
For page see List of Advertisers.

NEW ZEALAND SPENCER SWEET PEA SEED.

Loechner & Co., 11 Warren St., New York.
For page see List of Advertisers.

S. A. F. CONVENTION EXHIBIT.

M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

FOR SALE

FOR RENT

A greenhouse, about 5000 ft. glass, with about one acre of land. Large boiler, nearly new.
EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1034.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Sharon, Mass., 17 acres, cottage house, shed, barn, two greenhouses. Cheap for cash. Full particulars. E. G. BLANEY, Swampscott, Mass.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

What the Users Say



KROESCHELL REPLACES CAST IRON

¶ I am heating between 17,000 and 18,000 sq. ft. of glass with the No. 1-A Kroeschell, maintaining 50 to 54 degrees in the greenhouses.

¶ I have night freezing and we are [illegible] every hour in extreme cold weather, but in ordinary weather every two or three hours, leaving the boiler run [illegible] to six hours at the last firing.

¶ Have had **three different makes of sectional cast iron boilers**, but would not return to the sectional boiler under any consideration.

Signed) FREDERICK CAREY.

Kennett Square, Pa., July 3, 1913.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.



We are going to exhibit our line of ventilating machinery and greenhouse fittings at the Convention at Minneapolis, and want those who attend the Convention to be sure and become acquainted with our representatives, who will accompany our exhibit.

Our concern will be glad to answer any inquiries extended by those who can not attend the Convention due to circumstances which prevents them from attending.

We think of you also, and are prepared to take proper care of you, if you will write to

Advance Co., Richmond, Ind.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

SAVE 1/3

of your fuel bill by letting your

GREENHOUSE

with Soft Coal in a

SMOKELESS
King Ideal Boiler

Write us for [illegible]

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.

[illegible]

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	In.	@ $6.00	500	4	In.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
880	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY - Long Distance and Export Trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, Insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

THE GLASS MARKET.

L. E. Partridge, of Sharp, Partridge & Co., extensive dealers in glass, states that in his opinion the condition of the glass market has not undergone any very material change during the summer. Owing to the usual shutting down of the glass factories during the past weeks, stock has diminished and prices become firmer. The many severe storms throughout the country have emphasized this condition by causing an unusual amount of repair work. Statistics show the amount of glass on hand, at this time, to be below the average summer supply. More inquiries are coming in now from prospective builders than earlier in the season.



Show Houses Show Profits

THE first thing any kind of store owner arranges for, is the biggest possible display of his goods, not only in the windows, but in the store itself.
Seeing things, sells things—we all know that.
The man who can show his customers a variety of plants growing in addition to the cut kinds, has a big advantage. Time and time again, our customers have told us, their plant trade has increased surprisingly after building a Show House.

The profit on plants may not be as large as on cut flowers, but the losses are less.
People will buy plants, who never think of spending money for cut flowers.
Those who have always bought cut flowers from you, will buy plants in addition.
Don't these thoughts set you thinking?
Let us show you some of our Show Houses.

NEW YORK OFFICE
1170 Broadway

Hitchings and Company

PHILADELPHIA OFFICE
Pennsylvania Bldg.
1505 Chestnut Street.

FACTORY, Elizabeth, N. J.

MASTICA



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Dreer's Peerless Glazing Points
For Greenhouses



Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

PUTTY
Twemlow's Old English
Gals. $1.60
Wm. Elliott & Sons
42 Vesey St., New York

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

Making the Oblong Circle



A piece of the U-Bar, exact size.

A pipe shaped, or circular piece of iron, has no equal for strength, the amount of iron used being taken into consideration.
When a strain is brought to bear on any part, it is distributed to every part of the circle, so that every part is doing its part to stand the pressure.
Based on this engineering fact the U-Bar construction is constructed.
The steel part of the U-Bar itself is really a circle squeezed together a bit and the top cut off, making an oblong shaped member which, next to a circular shape, is one of the strongest shapes.

This oblong circle of galvanized steel, with its chemically treated cypress core bar, makes the complete U Bar.

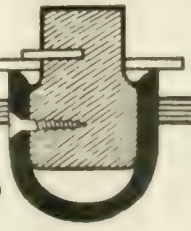
Now you understand as you never understood before, just why U-Bar roofs, light as they are, are strong as they are.

The U Bar, although no larger than the roof bar used in other constructions, takes both the roof bar and rafter in one.

By using curved eave other constructions may look like the U-Bar—but that is the only way they are like it.
If it is not built with the U Bar it is not a U Bar curved-eave house. Send for a catalog or send for us—or both.



Group of parallel U-Bar houses.
Erected last year for C. Howard Clark, Jr., Wayne, Pa.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVIII AUGUST 16, 1913 No. 7



Old Round Tower at Historic Fort Snelling, Minneapolis, Minn.

LIBRARY

MINNEAPOLIS CONVENTION NUMBER

Henderson's Superior Bulbs

For Autumn Planting



Hyacinths Tulips
Narcissus Lilies
Callas Freesias
Lily of the Valley
Spiraeas Peonies
Iris Gladiolus

The Largest Assortment
The Newest Varieties
The Best Quality
of **Bulbs**
Imported into America

For August Shipment

Lilium Harrisii Hendersonii Superior.

White Roman Hyacinths.

Pink Roman Hyacinths.

Dark Pink Roman Hyacinths.

Light Blue Roman Hyacinths.

Narcissus Paper White Grandiflora.

Freesia Refracta Alba.

Freesia Purity.

Lilium Candidum. Northern France Bulbs.

White Callas.

Henderson's Wholesale Bulb Catalog Mailed to Florists on Application

PETER HENDERSON & CO., 35 and 37 CORTLANDT ST. **NEW YORK**

WE GROW

DAHLIAS, CANNAS, GERANIUMS

and a General Line of Bedding Stock in Large Quantities for the Trade, Park Departments, Railroads, Cemeteries, etc.

Write us what you will require next season and we will make it interesting.

SEE US AT THE CONVENTION

R. VINCENT, Jr. & SONS CO., - White Marsh, Md.

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

BAY TREES

For sale cheap, eight large Bay Trees, height 7½ to 9 ft., diameter 4½ to 5 ft. Can be seen at Beverly Farms, Mass., and can be delivered at once. Eight more can be delivered in fall. Address "FELWOOD," care HORTICULTURE.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. 2890 Bedford BROOKLYN, N. Y.

LIST OF ADVERTISERS

Page
Advance Co. 253
Albany Cut Flower Ex. 244
Allen, J. K. 244
Anderson, S. A. ..257
Aphine Mfg. Co. 251
Aschmann, G. 204
Atlanta Florist Co. 242
Ayres Co., S. Bryson 235
Badgley, Reidel & Meyer. 244
Barnard, W. W. Co. 235
Barrows & Son. .204
Bayersdorfer, H. & Co. 240
Bay State Nurseries 199
Berger Bros. 239
Bloomingdale's . 236
Bobbink & Atkins 200
Boddington, A. T. 231 233
Bolgiano & Son, J. 235
Boston Florist Letter Co. 242
Breck, J. & Son 235
Breck-Robinson Nurseries 200
Breitmeyer's, J. Sons 236
Bryan, Alonzo J. 232
Burnett Bros. ... 235
Burpee, W. A. & Co. 235
California Florist 237
California Seed Growers' Asso. 235
Carbone 237
Page
Chicago Carnation Co. 242
Childs, John Lewis 233
Clarke's, D. Sons 236
Clark Everett B. Seed Co. ..235
Cooke Geo. H. 238
Cowee, W. J. . 244
Craig Robt. Co. 202
Dard's ..236
Davis Nursery Co. Frankfurt. .232
Dawson H. S. ..199
Dorner & Sons Co. 224
Greer, H. A. ..225 251-252
Dunlop John H. 237
Dysart, R. J. ..244
Eastern Nurseries ..199
Edwards Folding Box Co. 242
Elliott, W. Sons 251
Epstein, Julius. 237
Ernest W. H. ..250
Esser, J. G. ..252
Eyres 236
Fairfield Landscape & Nursery Co. .200
Farquhar, R. & J. & Co. 226-227
Ford, W. P. ..244
Forrest, Frank H. 237
Fottler, Fiske, Rawson Co. 235
Framingham Nursery 200
Fromont, H. E. 244
Galvin, Thos. F. 237
Page
Gasser, J. M. Co. 237
Goodsell, P. H. 200
Grey, T. J. Co. 234
Gude Bros. Co. 236
Gumm, W. L. 224
Hail Association 252
Hall & Robinson 237
Hammond Paint and Slug Shot Works 251
Hart, Geo. B. . 242
Hencock, Jos. . 232
Heinecken, Otto. 235
Henderson, A. 232
Henderson, Peter & Co. 198
Hess & Swoboda. 236
Hews, A. H. & Co. 250
Holland Nurseries 204
Hilfinger Bros. .250
Holm & Olson 236
Hudson Carbon Co. 251
Jacobs & Sons, S. 253
Johnson, J. Oliver 234
Johnston Bros. ..237
Jones, Robert Ross 252
Kasting, W. F. Co. 245
Keller, J. B. Sons 236
Kelway & Son. ..235
Kervan Co. 244
King Construction Co. 252
Kramer, F. H. ..237
Kroeschell Bros. 253
Kuebler, W. H. 244
Lager & Hurrell. 252
Lange, A. 237
Page
Lemon Oil Co. .251
Leonard Seed Co. 234
Leuthy, A. & Co. 204
Loechner & Co. 233
Lord & Burnham 256
Lurton, W. H. 255
MacMulkin, P. 237
May & Co., L. L. 237
McConnell, Alex. 236
McCarthy, N. F. Co. 244 245
McCray Refrigerator Co. 239
McCullough's Sons Co., J. M. .242
McHutchison & Co. 204
McKenzie, John 199
McManus, Jas. .244
Michell's Seed House 234
Michigan Cut Flower Ex. .242
Millang, Chas. . 244
Miller, E. S. . 234
Moninger Co., J. C. 254
Montreal Floral Exchange 244
Moore, Hentz & Nash 244
Mt. Desert Nurseries 203
Murray, Samuel 236
National Nurseryman 200
N. Y. Stable Manure Co. 251
Niessen, Leo Co. 241-242
Oechslin, Ernest 224
Oechslin, Frank 203-232
Page
Onwerkerk, P. . 204
Park Floral Co. 236
Parmer, W. J. & Son 236
Parshelsky Bros. 252
Pellecano, Rossi & Co. 237
Penn the Florist 237
Pennock Bros. 239
Pennock-Meehan Co. 243
Pierce Co., F. O. 252
Pierson, A. N. . 221
Pierson, F. R. Co. 232
Plant Food Co. 20th Century 251
Poehlmann Bros. Co. 228 242
Polsworth, C. C. 236
Pulverized Manure Co. 251
Quaker City Machine Co. 253
Reed & Keller . 241
Revere Rubber Co. 254
Rendberg, Peter. 242
Rice M. Co. 237
Robinson Co., H. M. 241
Roehrs, J. Co. . 201
Rolfe, Thomas 221
Rolker, A. & Sons 204 250
Rosen, The 236
Sander & Son ..232
Scott, John 199
Schang, Max 237
Sharp, Partridge & Co. 252
Sheridan, W. F. .244
Siebrecht, Geo. C. 244
Siggers & Siggers 252
Page
Skidelsky, S. S. & Co. 233
Smith, P. J. 241
Smith & Co., E. D. 200
Smith, W. & T. Co. 204
Smyth, Wm. J. 236
Spreng, J. H. 232
Stearns, A. T. Lumber Co. 252
Syracuse Pottery Co. 250
"Tel-Wood 196
Totty, Chas. H. 204
Thorburn, J. M. & Co. 235
Tillotson & Schenck 234
Tricker, Wm. 232
Valentine, J. A. 230
Van Assche, P. 242
Vick's, Jas. Sons 235
Vincent, R. Jr. & Sons Co. 199
Walsh, M. H. .200
Wants, For Sale 240
Ward, R. M. & Co. 241
Weeber & Don 253
Welch Bros. 242
Whitton & Co., W. B. 200
Wilson, Robt. G. 236
Wood Bros. 241
Woodrow & Marshefos 240
Yokohama Nurseries 232
Young & Nugent. 236
Zangen, O. V. 235
Zinn, J. A. 237
Zvolanek, Ant. C. 235

For Buyers' Directory and Ready Reference Guide

See Pages 246, 247, 248, 249

WALSH'S RAMBLERS

THE ROSES THAT MADE AMERICA FAMOUS AND REVOLUTIONIZED THE ROSE GARDEN

I offer superb field-grown stock of all the popular varieties and recent introductions, for garden planting or florists' Easter forcing. Splendid stock to grow on in pots or tubs for exhibition. Write for Illustrated Descriptive Catalogue and information as to what I can supply in prize winning material for the big Spring Shows of 1914, some of which is now offered for the first time.

ALSO FULL LINE OF H. P. AND H. T. ROSES, PHLOXES, ETC., ETC.

M. H. WALSH

WOODS HOLE, MASS.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties .... for ....

July and August Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

THE

National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building

ROCHESTER, NEW YORK

GEO. J. PEARSON Pres. & Treas. WM. J. ZARTMANN V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

41st Street and Park Ave., NEW YORK

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

FRAMINGHAM NURSERIES

SOUTH FRAMINGHAM, MASS.

U-GET-A TRADE MARK DEAL

W. B. WHITTIER & CO.,

SOUTH FRAMINGHAM . . MASS.

GROWERS OF HIGH GRADE NURSERY STOCK

LARGE ASSORTMENT

WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c. postpaid. Ask for our 1914 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

PLANTS

Hardy and Tender, Greenhouse and Stove, Nursery, Garden and Conservatory, Staples and Novelties for Florist Trade Needs or Private Collections.

The most diversified and complete collection in America.

ORCHIDS, all species and varieties; Stove Plants, Palms, Climbing Conservatory Favorites, Pandanus, Anthuriums, Dracænas, Bromeliads, Marantas, Allemandas, Ficuses, Boston Ferns, Crotons, Camellias, etc.

PLANTS FOR GROWING ON

All Palms from midgets to giants, Cyclamen, Oranges, Ferns, Aucubas, Poinsettias, Genistas, etc., etc. English Ivies by the 10,000, Buxus, trained plants and young stock. Immense stock of Field-Grown Rambler Roses.

CONSERVATORIES STOCKED COMPLETE.

SEND FOR CATALOGUES. SPECIAL PRICES TO THE TRADE. CALL AND SEE THE STOCK.

JULIUS ROEHRS CO.

Rutherford, N. J.

BEAUTIFUL CROTONS

BY THE HUNDRED THOUSAND

Finest Collection in the World! ***Over 400 Varieties!***

All in perfect condition — Grown in the clear pure air of Norwood, in the newest and latest Lord & Burnham Conservatories, and by experts who know how.

We offer for immediate delivery, strong plants, assorted varieties.

2½	in. Pots.	$20.00 per 100		$175.00 per 1,000	7	in. Pots	$24	$30	$36	per doz.
4	in. Pots.	30.00	"	275.00 "	8	in. Pots Made Up Beautiful Plants	$24	$30	$36	per doz.
5	in. Pots	$50	$75	$100 per 100	10	in. Pots	$5	$6	$7.50	each
6	in. Pots	$12	$15	$18 $24 per doz.	12 and 14	in. Tubs	$10	$12	$15 $20	each

Every grower and retailer should feature Crotons. Send for our descriptive price list, giving full particulars of all the latest new and rare CROTONS, also other

MERITORIOUS NEW PLANTS

We Know Our Stock Will Please You and Your Customers

We will be represented at the Convention by our usual staff of salesmen, with a full line of samples of Crotons and other

CRAIG QUALITY SPECIALTIES

Cyclamen	**Pandanus**	**Dracaena**
Genista	**Areca**	**Nephrolepis**
Ficus	**Phoenix**	**Adiantum**
Aspidistra	**Hydrangea**	**Etc., Etc.**

This will be an excellent opportunity for visitors to place their Fall orders as they can then see just what they are buying.

We also extend a cordial invitation to stop off in Philadelphia either going or returning from Minneapolis. We will be pleased to show you our stocks both at Philadelphia and Norwood.

ROBERT CRAIG CO.

Market and 49th Sts., Philadelphia, Pa.

Branch: NORWOOD, PA.

At the Great International Show in New York we were Awarded a Silver Medal and Special Mention for a superb collection of these Fine Herbaceous Plants

Absolutely Hardy Astilbes and Spiraeas

We offer fine sturdy clumps. Order Now. Send for Catalogue of other hardy herbaceous material.

		Each.	Doz.
ASTILBE ARENDSI	Ceres, delicate pink	.50	$5.00
" "	Juno, rosy violet	.50	5.00
" "	Rose Perle, white flushed pink	.50	5.00
" "	Silver White, rosy white	.50	5.00
" "	Venus, delicate rosy pink	.50	5.00
" "	Vesta, delicate rosy white	.50	5.00
" "	No. 3, deep rose	.50	5.00
" "	No. 4, pink	.50	5.00
" "	No. 5, rich pink	.50	5.00
" chinense,	white and rose	.25	2.50
" Davidi,	rosy violet	.25	2.50
" grandis,	pure white	.25	2.50
" hybrid	Queen Alexandra, deep rose	.35	3.00
" hybrid	Peach Blossom, delicate pink	.35	3.00
" Lemoinei	Nuee Rose, rose	.25	2.50
" Lemoinei	Panache, white and rose	.25	2.50
SPIRAEA, Geyser,	pure white	.20	1.50
" Gladstone		.20	1.50
" McKinley		.20	1.50

THE MT. DESERT NURSERIES, - Bar Harbor, Me.

A Special Invitation

is extended to all Florists visiting Chicago on the way to or from the Convention to call and see our stock of

Decorative and Blooming Plants

Blooming Plants For Christmas and Easter a Specialty

Take Garfield Park Branch of Metropolitan Elevated to 48th Avenue, then 4 Blocks North and 1 Block West; or Madison Street Car to 48th Avenue then 2 Blocks South and 1 Block West.

FRANK OECHSLIN

4911 QUINCY ST., CHICAGO, ILL.

ADAPTABILITY

There is no flower in the whole category of flowerdom that can be appropriately used for as many purposes as the pure white Easter Lily. And the best part of it all is, that by using lilies more profit is made. This is of course, generally speaking—the exceptions to the rule being caused by a poor quality of flowers. This may be avoided however, by securing Horseshoe Brand bulbs and giving them good care in forcing. You can have lilies any time in the year—reliable flowers. Send for our catalog with prices and instructions.

COLD STORAGE GIGANTEUM
(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at	$ 6.00	each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights P. O. No 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

	Per Hundred
American Beauty, 4 in.,	$12.00
Hillingdon, 4 in. . .	10.00
Sunburst, 4 in. . . .	15.00
Pink Killarney, 4 in. .	8.00
500 Radiance, 3 in. .	8.00

CHAS. H. TOTTY
MADISON, N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

When writing to advertisers kindly mention HORTICULTURE.

Ferns in Flats

ALL VARIETIES

We are now shipping and will continue until Sept. 1st to ship Flats by express. Flats contain about 110 clumps.

Price $2.00 per flat, 20 or more flats $1.75 each.

Write for list of varieties, illustration and full particulars.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Parkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bulb Compost

If bulb compost is not already mixed you should lose no time in doing so. It is well known that all bulbs give better results from new soil mixed with well-decayed cow manure. The general run of bulbous plants grow best in a light fibrous loam. Stiff or heavy soil should have a liberal mixture of leaf mold and sand. Bulb soil should be made sufficiently porous that no stagnant water will remain around the bulbs, after which you can add manure. Never use any new manure as it is very liable to prove destructive. A good preparation for bulbs is two-thirds light fibrous loam, one-third old and well-dried cow manure. Mix over and over so it will be in a good mechanical state.

Calceolarias

Why not grow a few of these beautiful show plants for next spring's flowering? Now as the end of summer approaches it is time to sow calceolaria. Well-drained earthenware seed pans are filled with a very sandy mixture of turfy loam and partly decayed leaf mold. After a good watering down of the soil the seeds are thinly scattered on the surface. This requires some care, since the grains are very small. With a smooth piece of board the seeds are pressed gently into the surface and the pans covered with panes of glass. The best place now for these seed pans is a cold frame with loosely fitting sashes. Keep the pan shaded until the little plants appear. In a few weeks they can be transplanted into flats, about an inch apart, using the same soil as mentioned above. After they have made four or six leaves a potting off into small pots takes place. As they attain size they will need a shift into larger pots every now and then, the richness of the compost for every shift being slightly increased, until at the end of the season a potting mixture coarse and unsifted, yet porous and mellow and containing fully one-fourth of well decayed manure is used.

Carnations

The varying circumstances that the carnation growers are placed in have much to do with deciding the question of why this or that, of the various methods practised in rearing young stock and its subsequent treatment, should be considered of greatest advantage. The behavior and condition of stock under one's immediate care should, therefore, be closely studied and the grower, thus fortified with knowledge gained by observation, will all the more clearly see his way through the maze of rules governing the culture of carnations. To encourage a healthful growth with proper moisture at all the roots without keeping all the soil in a continuously soaked condition, requires great care in watering. Air must be admitted freely through ridge ventilators, day and night, in spells of calm, warm weather. Give frequent stirring of the upper surface soil to keep it open, sweet and free of weeds.

Care of Gardenias

The days from this out will now be showing a shorter length which is liable to produce frequent and quite low drops in temperature, to guard against which it is always better to start the fires early. Give ventilation on all favorable occasions, guarding against any strong or direct drafts. The night temperature should never be allowed to go below 70 degrees, with a rise of from 15 to 20 degrees with sunshine. Do not allow the beds to become either too dry or saturated as extremes either way are bad. Now that the roots are working to every nook and corner looking for nourishment, give them some feeding in the line of mulch of equal parts of cow manure and loam, applying it about half an inch deep all over the beds. Syringe on all good days as it helps to keep them in a clean condition.

Dendrobiums

Dendrobiums that have had proper attention should now have made some fine growth. As such species as Dendrobium nobile, Wardianum, Jamesianum, Findlayanum, etc., finish up their new growth, in order to prevent a second growth at this late period they should be removed to a cooler house. It was necessary during the hottest part of the summer to have them well shaded, but now it should not be made too heavy, only enough to exclude the direct rays of the midday sun. By gradual means they can be given more airy, cool, dry and sunny quarters, but do not try to bring this about with too much haste. From day to day reduce the water supply at the roots, doing this gradually helps to perfect the ripening up of their growth. During all bright days give them a good syringing. Give them plenty of ventilation on all favorable occasions which will make the conditions right for their resting period.

Paper White Narcissi

The earliest shipments of paper whites will now be due so get a good batch boxed up as soon as possible. There is a good demand for these paper whites from the end of November on until the first of January. When they are boxed up they can be placed in a cold frame and when they show good root action with some top growth they can be brought into a good light house and grown on. Give a temperature of about 55 degrees at night.

Mr. Farrell's next notes will be on the following: Adiantum; Care of Chrysanthemums; Cyclamen for 1914; Show Pelargoniums; Sowing Pansies; Seed Sowing.

AUG 1 1913

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Preparing for Mushroom Beds

With suitable accommodations mushrooms can be grown all the year round. To do so requires a good cool cellar, an underground cellar preferable, and then the beds are best made up before the hot weather sets in, thus doing away with the preparing and making up when the weather conditions are against one. August is considered early enough to commence the fall and winter crops here in New Jersey. Doubtless in cooler latitudes a commencement can be made earlier. The great trouble seems to lie in the curing of the manure when it is so hot and dry. A second thought reveals the fact that failures and poor crops the whole year round can generally be traced to this process, if traced they can be, for it is about one of the vaguest questions anyone can be asked to determine—the cause of a mushroom bed not cropping satisfactorily. The man who turns out an average crop every time will generally be found to be one who has the manure under his care right from the time it is collected until the bed is spawned, doing away with all assistance and doing all the turning, etc., himself. I have been fortunate enough to meet on different places that I have worked on, men who have made mushroom beds for years, each having some little detail worked his own way, but for a bed to miss or even be poor was seldom seen. This goes to show they have studied the conditions locally, met with success, and then followed the same routine yearly. Professional growers will work on a percentage basis and small wages so that they have to be pretty near the mark every time. There is money in raising mushrooms.

Making mushroom beds is the same as everything else—if you wish to be right, start right. The very first thing to find out (if the manure is obtained locally) is, have any strong physics been used on the horses from which the manure is obtained? Should this be the case wait a while, as there is danger of its affecting the tender mycelium later on. Get the requisite quantity of manure together as quickly as possible so that it is all in about the same state. Where there is a long wait in getting a heap together the first to come will be ready to be made up before the last has arrived. During this time of accumulation and until it is ready to be made up the manure should be under cover or showers and rains will prevent its drying and also cause a rapid raise in the temperature. A shed or room that has one side open or that can be made to be very airy will answer the purpose. Now we come to the hard part to define, that of saying when the manure should be ready to be made up. It requires turning once every day; twice will be better if it can be done. Do not skip a day and think it will be all right for it will not do. The manure will have got over-heated, white and dry. Although it cannot be used wet the other extreme should also be guarded against. Keep the heap a fair thickness so long as the weather is dry; this will help to hold some of the moisture. To be ready for making up the manure should be neither wet nor dry and heat up to an even heat each day. See that the cellar is ready to receive it the first day it is ready as each day it remains out after this stage is reached, is against the best results.

Over Feeding

This is a topic in season all the year round, and is one you can put right up to the man who says you can't have too much of a good thing. The majority of plant life will stand a quantity of stimulant if given in the proper form and at the proper time. For instance, do not try to feed a plant when it is dry for all the roots are able to take just then is some clear water. After they have been given all they need, then apply any feeding that you please. It is not only to the plant's advantage but also to us. Being dry a greater part of the feed will run straight through the pot or bench and the plant get little benefit from it. When the soil is on the wet side most of the manure will gradually soak down into the roots. Another point is to work the subjects up to taking it strong enough to get what you want out of them. It is a big mistake to feed anything full-strength right away. The roots have not been used to this kind of living, consequently it upsets them. Gradually is the way, and then you will find the roots looking for it. Should anything get an overdose get some clear water into the roots at once.

Borers

Little has been said in these columns on this devasting pest because as yet there is no satisfactory means of prevention. They are liable to attack peach and nectarine trees growing under glass just the same as those in the orchard. At times I believe they find the trees inside more to their liking and the mortality of their young is not so great. Wherever the dust is seen coming from the tiny hole lose no time in either cutting it out or get a piece of wire and push it down. If it comes in contact with the body they are easily killed but do not take any half chances with them. When you have them out you know for a sure thing they are dead. Do not make the cut any larger than is absolutely necessary to get it out. Keep a sharp lookout for them the remaining weeks of this month and next month.

Summer Pruning of Grape Vines

Since the crop was removed from the early vinery it will have been growing without restriction, which is a great benefit to the roots. The greater amount of vigorous top growth they have, denotes corresponding activities with the roots. These vines have a somewhat hard time of it and it does them good to let them roam for a while each year after the crop is cut. This must come to an end in favor of the buds that are to form next year's fruiting wood. These base buds on the laterals probably will be poorly developed and would remain so if this top growth was left to go ahead. To help these buds to plump up before fall gradually remove the superfluous growths, also cut back any laterals that have not made any extra growths to half-way. It will be advisable to do this gradually, removing some each day or about three times a week.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Side Ventilation

Unless these can be handled by men who know what they are about, it is best to stop using them altogether, for the nights are getting real cool in this part of the country and the danger from mildew is too great to take any chances. Not that the side ventilators are responsible altogether, but they are very apt to be partly responsible if they are used after the cool weather sets in. We prefer by far the houses with no side vents which saves us a lot of time and worry, for the help that we often have to work with is not always A1. For private places where quality is always the first consideration, and where the time allowed to properly look after the houses is much greater than the time allowed on the average commercial range, the side ventilators can be used to good advantage, but keep them out of our commercial houses for ventilating purposes. Of course they are nice to you when planting or painting inside as they help reduce the temperature and make life more pleasant for all who have to work inside.

Ventilation in General

Now that cooler weather has set in, it may be necessary to lower the ventilators nights to keep the houses from dropping down too low. Even a little steam may have to be applied to hold up the temperature, which should not go below 64 degrees F. at this time of the year when the thermometer will register 80 or 90 during the day. Do not close the houses up, as the condensation on the glass and plants themselves would be so great as to have an ill effect with just a slight incline toward spot and mildew. Always leave the ventilators open at least half an inch.

Thunderstorms

Be very careful and not allow the plants to get wet at night (or in the day time either) by rain beating in through too-far opened ventilators. This is very disagreeable to the plants, even though it may not be so to the night watchman who is peacefully snoozing elsewhere. It is bad business, and any man who will neglect his work thus will never get ahead very far. Another "smart" way is to close the houses up tight and take a nap. Surely they will be dry in the morning—but the grower will no doubt wonder if the "fresh air" he gives them all the time really agrees with his plants.

Treating Wet Plants

When plants do get wet during showers, by accident or otherwise, about the first thing to be done is to see that they are shook off as much as possible, so as to give them every possible chance to dry very rapidly. As soon as the foliage is dry enough to keep it from sticking blow quite a little of air-slacked lime right under the plants, which will greatly help to absorb much of the moisture that would condense there, and thus help to prevent blackspot and mildew as well.

Cost Accounting

No doubt this receives but very little attention at most places—in fact, nearly all places. The only book kept is the check book, which determines whether there is gain or loss. At the same time, however, our business is coming to a stage where it will be absolutely necessary for the grower to know just "what's what," and to be able to tell to a cent what every rose produced has cost him. It all seems very difficult and complicated in the beginning, but when once started it is surprising how very simple it is to keep account of all little expenses and receipts. As places vary so very greatly it would be difficult to lay down one set rule for keeping all accounts, but the grower can generally himself determine just how this should be done. And it cannot all be done in a day. It will take weeks of careful study to devise and apply a system of cost accounting which will "fit," not only the place and conditions on it, but also the men, for at a good many places we find plenty of foreign labormen who cannot sign their names, let alone keep books. Yet they may be good workers and growers. To give an outline of this system we would advise numbering all the houses the very first thing, if this has not been done previously. Then attach a sheet of paper on one end of the greenhouse, and put a pane of glass over it to exclude water. Now let each man, no matter what he does in the house, take careful note of the time required to do it and carefully record it on the sheet, which has been ruled for the purpose. We make it a point to add 25c. for each $2.00 worth of labor, to cover wear and tear of tools. This is the only way we know of distributing this expense evenly. The whole amount is then charged to the greenhouse and as the record of the cut is carefully shown it is very easy to determine which houses are unprofitable or which of the growers are not doing their share. By applying this system at one place, the owners were real surprised to learn that certain varieties of roses and also certain members of the force were very undesirable, and it was not long before this was remedied. The coal bill is figured so much to heat one square foot of glass, and it is very easy to determine what it costs to keep the houses warm. Where the place is not heated from one point, the cost is considered separately for each heating section. This is the only fair way, for were the houses charged the average when the plant is heated by two or three different batteries of boilers from different points, it would not be square, as some boilers use more coal than others, also require more care, and may depreciate more rapidly.

The Convention

Never mind the expense if time will allow you to attend. The money required to take you there, and keep you until you return is well invested, and will bring great dividends in more ways than one. Who is the most successful man, he who travels or he who has not been out of his town in years? The former, of course, because travel will broaden one's views of life, business and all. You will be surprised how simple your great problems will look when you return after a chat with your neighbors miles and miles away.

HORTICULTURE

VOL. XVIII AUGUST 16, 1913 NO. 7

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Old Round Tower at Historic Fort Snelling, Minneapolis, Minn.

NOTES ON CULTURE OF FLORISTS' STOCK—Bulb Compost—Calceolarias—Carnations—Care of Gardenias—Dendrobiums—Paper White Narcissi—*John J. M. Farrell* 205

FRUIT AND VEGETABLES UNDER GLASS—Preparing for Mushroom Beds—Over Feeding—Borers—Summer Pruning of Grape Vines—*George H. Penson* 206

ROSE GROWING UNDER GLASS—Side Ventilation—Ventilation in General—Thunderstorms—Treating Wet Plants—Cost Accounting—The Convention—*Arthur C. Ruzicka* 207

IN WONDERLAND: THE UNSEEN ARTISTS—*C. S. Harrison* 209

SOCIETY OF AMERICAN FLORISTS—Program of the Twenty-Ninth Annual Meeting and Exhibition—National Guards' Armory, Illustration—Portraits of Officers 210-211-212-213-214

National Association of Gardeners 213

Floor Plan of Exhibition Hall 214

Ladies' Society of American Florists 218

THE CONVENTION CITY—Views in Minneapolis Park System 215

Portraits of Some Busy Men at Minneapolis 216-217

Minneapolis Florists' Club 218

Portraits of Some Convention Ladies 218

Minnesota State Capitol 219

CLUBS AND SOCIETIES—American Association of Park Superintendents—St. Louis Florist Club—Newport Horticultural Society—Westchester and Fairfield Horticultural Society—Canadian Horticultural Association 219

Club and Society Notes 220

BRITISH HORTICULTURE—*W. H. Adsett* 220

EUROPEAN RAMBLINGS—*W. R.* 220

DURING RECESS—Florist Club of Washington Entertained—Oyster Bay Horticultural Society—Buffalo Florists' Club—Arcade Bowling Alleys, Minneapolis, Illustration 221

A MASSACHUSETTS GLADIOLUS FARM—*Wm. H. Hatfield* 222

GLADIOLUS SHOW AT BOSTON 222

SOME GLADIOLUS QUESTIONS 223

SEEN AT BAR HARBOR 223

NEW AND INTERESTING AT CRAIG'S 229

SEED TRADE 233

OF INTEREST TO RETAIL FLORISTS:

New Flower Stores—Steamer Departures 236

Flowers by Telegraph 237

A Young Lady's Summer Outing 238

OBITUARY—C. Leslie Reynolds 240

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati 243

Detroit, New York, Philadelphia, St. Louis, Providence 245

MISCELLANEOUS:

Rutherford, N. J., Notes 220

The Cattleya Fly—*Jos. Woods* 220

Publication Received 223

News Notes 223-237-239

Three Chicago Plant Growing Establishments, Portraits 224

An Unique Exhibit, Illustrated 229

New York State Fair—Incorporated 233

Philadelphia Notes 238

Chicago Notes—Cincinnati Personals 239

Personal 240

Greenhouses Building or Contemplated 252

Convention Number

Once a year at S. A. F. Convention time, HORTICULTURE puts on a little gala trimming in honor of this annual event, and devoting a large section of its reading pages to convention topics, makes its bid for the advertising patronage of those firms who have something to sell to the florist trade. This issue is the ninth in the series and we hope it will prove as interesting and useful as any of its predecessors. The names that appear in the list of advertisers are a source of pride to us for most of them are known far and near as representatives of the highest type of reliable business houses. We should like to see many more on the list, and regret that so many still lack the enterprise to compete for the support of the desirable clientage composing HORTICULTURE's family of readers. There are thousands of such readers and we here appeal to them to help HORTICULTURE by purchasing, as far as possible, whatever they may need at any and all times, from HORTICULTURE's advertisers exclusively.

Minneapolis colors

This issue will come to the hands of most of the convention visitors just as they are about to start on the journey. Take the paper along with you and, through its gallery of portraits start your acquaintance with the active spirits of the convention by getting familiar with their physiognomy. The men who are directing and perfecting local arrangements in Minneapolis are the sort of men you want to know. We are doubly sure of this, for Secretary John Young who has sojourned with them for the past month says so. Mr. Young writes "Everything has been going along most satisfactorily. They are a splendid lot of boys out here, all working in complete harmony, no jealousies, and every one seems to be working with a will to insure the success of the coming convention." "True blue" and "white" seem quite applicable in this connection and so HORTICULTURE's cover page goes out on this occasion dressed in blue and white—the official "colors" of Minneapolis.

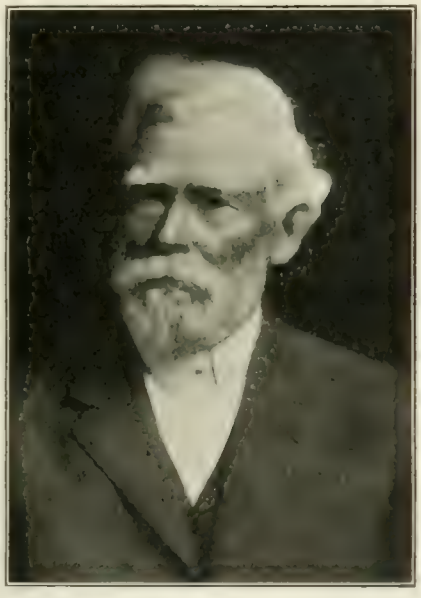
Choosing a president

That a considerable interest, not to say excitement, will attach to the choice of a president for next year, at Minneapolis, seems generally expected. This is desirable for nothing tends more to animate and infuse life into the membership of an organization than a lively contest over the election of officers provided always that no element of bitterness is injected and that nothing be said or done that will leave a sting after it. The selection of the officers of an association so widely distributed as the S. A. F. and so broad in scope, with a rapidly increasing membership and accumulating funds, is a matter of no small importance and each member should consider carefully the comparative fitness of every candidate whose name is presented, solely from the standpoint of the Society's welfare and needs, before deciding as to whom he will support. Other considerations of personal friendliness, sympathy or fellowship in other organizations should take a secondary place. The fact that a man has been a candidate before and has withdrawn once or a dozen times in favor of another does not, of itself, invest him with any accrued claim upon the office he seeks. Whether the next president be taken from among those whose names have already been publicly mentioned for that honor, or some other, we hope to see the choice fall on one endowed by nature with those qualities which make a man a leader among men, one having the horticultural training and experience and who has already done something to win distinction and honor in his calling.

IN WONDERLAND: THE UNSEEN ARTISTS

We are influenced by the company we keep. Association with the pure and beautiful will have its impress upon us. When we think of it, there has been large provision for our spiritual as well as material wants.

Beauty is for immortals. Animals cannot appreciate it. Along in the fifties I used to drive over the vast flower-sprinkled prairies of Minnesota. The fragrance was so profuse you seemed wading in it. In the far-off horizons the emerald of the earth blended with the sapphire of the heavens. I sat entranced, drinking in the scene. But my horse never could take any interest in it. Along with the world of matter there is a world of soul. And the soul has tastes as well as the palate. Sometimes I sit down among my flowers and think of them as the most skilled artists on earth, with a refinement of taste, a delicacy of touch no human brain or hand can imitate. In a group there will be an iris, a peony, a columbine and an oriental poppy. How courteous each one is to the rights of the other. Under the earth are unseen influences which baffle all human ken. These tiny roots down in their dark prison are doing what no human artist can do with wide open eyes in the full light of day. Each busy worker knows just what he is about. The peony never steals the tints that belong to the columbine. Flowers of the same variety never rob each other. How can those unseen artists pick out and send one color for the outer petals and another for the inner ones? Two varieties of the same family grow side by side. Each may have a dozen shadings and tintings. Never is there a mistake made. No red is sent up when the color should be blue. Each flower must have just what belongs to it—such exactness baffles all human effort.



Rev. C. S. Harrison

See that superb iris, the finest of the whole great Germanica family? The standards are immense petals of velvet and ivory, with that marvelous glistening reflex like that of the richest silk. How could those artists down in the dark manufacture that elusive sheen which flashes in the sunlight? Then those charming petals must be veined and traced with the most delicate tintings, while they are edged with deeper purple. Never is a mistake made in the blending of those harmonious colors.

The giant macrantha is the largest of all, with petals three inches across. Never a blunder made in the moulding and fashioning of those great blossoms—veining and tinting them with a beauty surpassing the rainbow. And there is Fairy, tall and princely, with the delicate fragrance of the peach blossom. Who manufactured that dainty little vial of odors and then uncorked it to pour the aroma out upon the air? Mark that tracery, interwoven with the pure whiteness of the flower.

There is no blind chance in all this. In this garden of delight I am at work with God. All these things are the expression of His love. "How precious are thy thoughts unto me, oh God." All these forms of beauty—these miracles of the highest art, are the translations of his thoughts to me. So much for the present. But just over in the unknown are new forms of loveliness which are yet to greet me—new creations. I take a dull piece of earth and plant it to bulbs, roots and seeds, and He and I created this section of Paradise let down to earth for our delectation. It is all a promise and a prophesy of the "glory to be revealed."

I am over fourscore, living on the margin of the two worlds, and instead of growing old I seem on the borders of eternal youth. So I am proclaiming the evangel of beauty far and wide. It is the Gospel of Hope. There is an uplift and inspiration in it. It will make people less sordid and greedy. It will lead the young into paths of pleasantness and peace.

C. S. Harrison

York, Neb.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

SOCIETY OF AMERICAN FLORISTS

—AND—

ORNAMENTAL HORTICULTURISTS

Program of the Twenty-Ninth Annual Meeting and Exhibition to be held in the National Guard Armory, Minneapolis, Minn., August 19, 20, 21, 22, 23, 1913

OFFICERS

President, J. K. M. L. Farquhar, Boston, Mass.

Vice-President, Theodore Wirth, Minneapolis, Minn.

Secretary, John Young, 54 W. 28th St., New York.

Treasurer, Wm. F. Kasting, Buffalo, N. Y.

Board of Directors.

One Year—Harry A. Bunyard, New York City; E. Allan Peirce, Waltham, Mass.

Two Years—Chas. H. Totty, Madison, N. J.; John A. Evans, Richmond, Ind.

Three Years—Thomas Roland, Nahant, Mass.; August Poehlmann, Morton Grove, Ill.

Ex-Officio—Richard Vincent, Jr., White Marsh, Md.

National Flower Show Committee.

Chas. H. Totty, Madison, N. J. (Chairman); W. A. Manda, South Orange, N. J.; W. N. Craig, Philadelphia, Pa.; W. N. Rudd, Chicago, Ill.; Thomas Roland, Nahant, Mass.; George Asmus, Chicago, Ill.

Botanist, Prof. A. C. Beal, Ithaca, N. Y.

Pathologist, Prof. H. H. Whetzel, Ithaca, N. Y.; Entomologist, Prof. Thos. B. Symons, College Park, Md.

Sup't of Exhibition, John Young, 54 W. 28th St., New York.

Tariff and Legislative Committee.

Wm. F. Gude, Chairman, Washington, D. C.; Patrick O'Mara, N. Y.; James McHutchison, N. Y.; Philip Breitmeyer, Detroit, Mich.; Patrick Welch, Boston, Mass.; Winfried Rolker, N. Y.

Judges for the Trade Exhibition.

Classes E and G—P. Welch, Boston, Mass., Chairman; W. F. Kasting, Buffalo, N. Y.; C. F. Rice, Minneapolis, Minn.

A, B and F—John R. Fotheringham, Tarrytown, N. Y. Chairman; L. H. Vaughan, Chicago, Ill.; J. D. Eisele, Riverton, N. J.

C and D—E. Allan Peirce, Waltham, Mass., Chairman; Adolph Poehlmann, Morton Grove, Ill.; M. A. Patten, Tewksbury, Mass.

Competitive Exhibits—Philip Breitmeyer, Detroit, Mich., Chairman; Charles U. Fohn, Colorado Springs, Colo.; Samuel Murray, Kansas City, Mo.

State Vice-Presidents.

Ala.—W. B. Patterson, Jr., Montgomery.
Calif. (N.)—Daniel MacRorie, San Francisco.
Calif. (S.)—Fred Howard, Los Angeles.
Colo.—Charles U. Fohn, Colorado Springs
Conn.—Wallace R. Pierson, Cromwell.
D. of C.—F. H. Kramer, Washington.
Fla.—C. D. Mills, Jacksonville.
Ga.—John Wolf, Savannah.
Ill. (N.)—Fred Lautenschlager, Chicago.
Ill. (S.)—Frank L. Washburn, Bloomington.
Ind. (N)—J. S. Stuart, Anderson.
Ind. (S.)—Joseph H. Hill, Richmond.
Iowa—James S. Wilson, Des Moines.
Kas.—Harrie S. Mueller, Wichita.
Ky.—Fred Louis Schultz, Louisville.
La.—Harry Papworth, New Orleans.
Me.—Charles S. Strout, Biddeford.
Md. (S.)—R. L. Graham, Baltimore.
Md. (N.)—R. A. Vincent, White Marsh.
Mass. (E.)—Wm. P. Edgar, Boston.
Mass. (W.)—Prof. E. A. White, Amherst.
Mich. (E.)—Albert Pochelon, Detroit.
Mich. (W.)—Elmer D. Smith, Adrian.
Minn.—Elof P. Holm, St. Paul.
Mo. (E.)—Edwin Denker, St. Charles.



National Guard Armory, Minneapolis

In this building will be held the various business meetings scheduled; the trade exhibition will be on the main floor.

Mo. (W.)—Miss Mary Hayden, Kansas City.
Miss.—S. W. Crowell, Rich.
Neb.—Louis Henderson, Omaha.
N. H.—Geo. E. Buxton, Nashua.
N. J. (N.)—Joseph A. Manda, West Orange.
N. J. (S.)—Geo. A. Strohlein, Riverton.
N. Y. (E.)—Jas. McHutchison, New York.
N. Y. (W.)—Geo. B. Hart, Rochester.
N. C.—S. Albert Starr, Goldsboro.
Ohio (N.)—Chas. Graham, Cleveland.
Ohio (S.)—Chas. E. Critchell, Cincinnati.
Okla.—Geo. Stiles, Oklahoma City.
Ore.—James Forbes, Portland.
Penn. (E.)—David Rust, Philadelphia.
Penn. (W.)—W. A. Clarke, Pittsburgh.
R. I.—L. J. Reuter, Westerly.
S. C.—C. A. Moss, Spartanburg.
S. D.—E. C. Newbury, Mitchell.
Tenn.—C. L. Baum, Knoxville.
Tex.—Alex Millar, Dallas.
Vt.—C. E. Gove, Burlington.
Va.—Herbert Brown, Richmond.
W. Va.—C. P. Dudley, Parkersburgh.
Wash.—Amy L. Lambly, Spokane.
Wis.—William Currie, Milwaukee.
Mont.—T. E. Mills, Helena.
Utah—A. J. Alt, Salt Lake City.

CANADA.

Alberta—A. M. Tirrell, Calgary.
Manitoba—H. E. Philpott, Winnipeg.
Ontario—H. Dillemuth, King St. E., Toronto.
Quebec—Geo. A. Robinson, Montreal.

Committee on School Gardens.

Benjamin Hammond, Fishkill-on-Hudson, N. Y., Chairman; C. B. Whitnall, Milwaukee, Wis.; Michael Barker, Chicago, Ill.; Robert Craig, Philadelphia, Pa.; F. R. Pierson, Tarrytown, N. Y.

Past Presidents.

*1884 John Thorpe, 1885 John Thorpe, 1886 John Thorpe, 1887 Robert Craig, 1888 E. G. Hill, 1889 J. N. May, *1890 J. M. Jordan, 1891 M. H. Norton, 1892 James Dean, *1893 William R. Smith, *1894 J. T. Anthony, 1895 Edwin Lonsdale, *1896 William Scott, 1897 Adam Graham, 1898 W. F. Gude, 1899 W. N. Rudd, *1900 E. M. Wood, 1901 Patrick O'Mara, 1902 John Burton, 1903 John Burton, 1904 Philip Breitmeyer, 1905 J C. Vaughan, 1906 Wm. F. Kasting, 1907 Wm. J. Stewart, 1908 F. H. Traendly, 1909 J. A. Valentine, 1910 F. R. Pierson, 1911 George Asmus, 1912 R. Vincent, Jr.

* Deceased.

PROGRAM.

Tuesday, August 19th, First Day.

OPENING SESSION.

2 P. M.—Opening Exercises—Ball Room. Address of Welcome, by Hon. Wallace G. Nye, mayor. President Farquhar's Address. Reports of Officers. Naming of Meeting Place for 1914.

EVENING SESSION.

8 P. M.—Reception to President Farquhar, Gold Room, Balcony Floor, Hotel Radisson. Music, Dancing, Refreshments; strictly informal. Balloting for Meeting Place for 1914.

Wednesday, August 20th, Second Day.

MORNING SESSION.

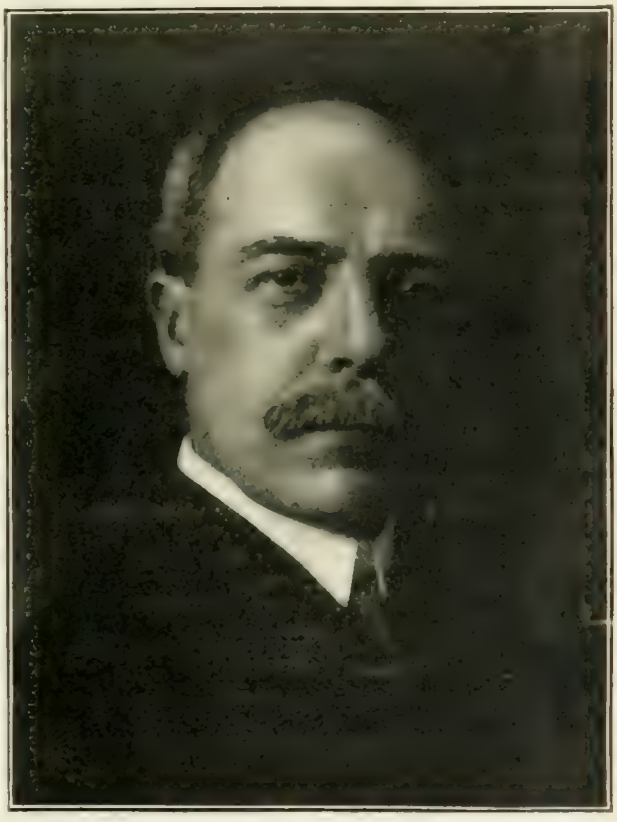
9 A. M.—Meeting of the American Rose Society—Committee Room B.

10 A. M.—Meeting of the American Sweet Pea Society—Committee Room C. Morning Session of S. A. F. and O. H.—Committee Room A. Report of Tariff and Legislative Committee—Discussion. Nominations of Officers for 1914. Reports of State Vice-Presidents.

10 A. M.—Annual Meeting of Ladies' Society of American Florists—Committee Room D.

AFTERNOON SESSION.

2 P. M.—Meeting of the Florists' Telegraph Delivery—Committee Room B.



J. K. M. L. FARQUHAR

President Society of American Florists and Ornamental Horticulturists.

3 P. M.—S. A. F. and O. H.—Report of National Flower Show Committee, by Chairman Charles H. Totty—Committee Room A. Discussion. Report of School Garden Committee—Committee Room A. Report of Judges of Trades Exhibit—Committee Room A.

EVENING SESSION.

8 P. M.—Stereopticon Lecture—By Theodore Wirth: "Parks and Boulevards of Minneapolis"—Ball Room.

Thursday, August Twenty-First, Third Day.

MORNING SESSION.

9 A. M.—Meeting of the American Carnation Society—Committee Room B.

10.30 A. M.—Meeting of the American Gladiolus Society—Committee Room C.

10 A. M. to 12 M.—S. A. F. and O. H.—Polls open for Election of Officers.

10 A. M.—Bowling Contest, Ladies' Society A. F.—Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue North.

2 P. M.—Annual Bowling Tournament S. A. F. and O. H.—Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue North.

Friday, August Twenty-Second, Fourth Day.

MORNING SESSION.

9 A. M.—Meeting of the Florists' Hail Association—Committee Room C.

10 A. M.—Meeting of the Chrysanthemum Society of America — Committee Room B.

11 A. M.—Session of S. A. F. and O. H.—Committee Room A. Report of Chairman of Publicity Committee. Discussion and Action on the following recommendation of the Board of Directors: "Resolved. That it is the sense of the Board of Directors that some action be taken by the Society whereby exhibits of artificial flowers at our Trade Exhibitions and Flower Shows be excluded."

AFTERNOON SESSION.

2 P. M.—S. A. F. and O. H.—Report of Chairman W. R. Smith Memorial Committee; Report of Chairman Committee on Sports—Committee Room A.

3 P. M.—Stereopticon Lecture—By Leonard Barron: "Glimpses of American Gardens"—Ball Room.

4 P. M.—Paper—By A. Farenwald: "Affiliation"—Ball Room. Discussion.

EVENING SESSION.

8 P. M.—Special S. A. F. and O. H. Concert—By the Minneapolis Park Orchestral Band at Lake Harriet Pavilion. Boating — On Lake Harriet. Compliments of the Board of Park Commissioners. Take cars for Lake on Hennepin Ave. at 7 P. M.

Saturday, August Twenty-Third, Fifth Day.

ALL DAY OUTING.

Guests of the Minneapolis Florists' Club.

9 A. M.—Take special cars on 6th Street between Hennepin Avenue and 1st Avenue North for Tonka Bay. One hour's ride through a splendid rolling farming country to beautiful Lake Minnetonka. Refreshments, Dancing, Boating, Fishing, Bathing, Sporting Events—As per program.

Prof. H. H. Whetzel of Cornell University, Official Pathologist, will have on exhibition an extensive collection



WILLIAM F. KASTING

Treasurer Society of American Florists and Ornamental Horticulturists.



RICHARD VINCENT, JR.

Director, ex-officio, Society American Florists and Ornamental Horticulturists.



JOHN YOUNG

Secretary Society of American Florists and Ornamental Horticulturists.

of specimens and descriptive material covering plant diseases. The educational value of this exhibit was clearly demonstrated at the convention at Chicago. The exhibit will be in charge of Roy C. Faulwetler, who will be pleased to give visitors information regarding the same.

GENERAL SPORTS PROGRAM.

Thursday, August Twenty-First.

Rules.—Every contestant must be a member of the S. A. F. and O. H. in order to take part in the sports events, and also a member of the Minneapolis Florists' Club to take part in the team contests representing the Minneapolis Florists' Club.

Ladies' Bowling Contest—10 A. M. sharp, Central Bowling Alleys, 1st Avenue N and 6th Street.

Men's Individual Bowling Event—2 P. M. sharp, Central Bowling Alleys.

Men's Team Bowling Event—4 P. M. sharp, Central Bowling Alleys.

Saturday, August Twenty-Third.

General Outing—Tonka Bay, Lake Minnetonka.

Baseball—Minneapolis Florists' Club Team vs. S. A. F. and O. H. All Stars —1 P. M.

Races and Field Sports.

11 A. M. Sharp. All Races to be from Scratch.

Girls' Race—10 years and under, 40 yards. 1st and 2nd prize.

Boys' Race—10 years and under, 50 yards. 1st and 2nd prize.

Girls' Race—15 years and under, 60 yards. 1st and 2nd prize.

Boys' Race—15 years and under, 100 yards. 1st and 2nd prize.

Single Ladies' Race—50 yards. 1st and 2nd.

Married Ladies' Race—50 yards. 1st and 2nd.

Men's Race—100 yards, 125 pounds and over. 1st and 2nd.

Fat Men's Race—200 pounds and over, 100 yards. 1st and 2nd.

Rules.—Fat men to enter this race, height 5 ft. 10 in. or less, must weigh 224 pounds or less. Fat men 225 or over must be 6 ft. high or over.

Wheelbarrow Race, Men—30 yards and back. 1st and 2nd.

Wheelbarrow Race, Boys—15 years and under, 30 yards and back. 1st and 2nd.

Double Race, Men—30 yards. 1st, 2nd and 3rd.



AUGUST POEHLMANN

Director Society of American Florists and Ornamental Horticulturists.



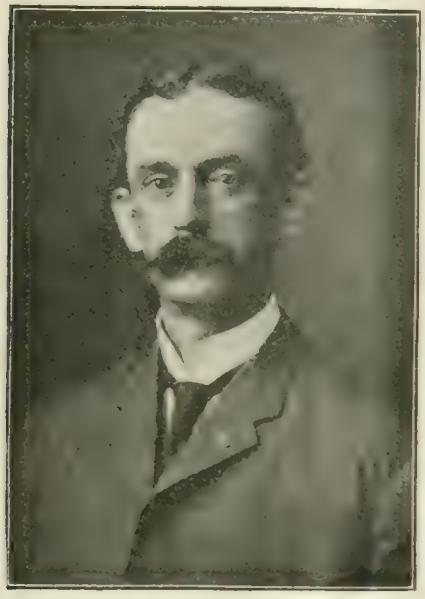
THOMAS ROLAND

Director Society of American Florists and Ornamental Horticulturists.



JOHN A. EVANS

Director Society of American Florists and Ornamental Horticulturists.



E. Allan Peirce
Director Society of American Florists and Ornamental Horticulturists.



Charles H. Totty
Director Society of American Florists and Ornamental Horticulturists.



Harry A. Bunyard
Director Society of American Florists and Ornamental Horticulturists.

(One man to be carried to certain line and other man to carry him back.

Women's Ball Throwing Contest—1st and 2nd.

100 Yards Open Event—1st, 2nd and 3rd.

(All to be lying with head on the line when starting.)

All Fours Race, Men—30 yards, creeping position. 1st, 2nd and 3rd.

Egg and Spoon Race, Ladies—50 yards. 1st and 2nd.

Tug of War—Between East and West, or between Cities. 1st.

Some water sport contests will be arranged for. Conditions and prizes will be announced at the time of the convention.

C. N. Ruedlinger, chairman of the sports committee, is now prepared to receive special contributions and prizes for the various sporting events scheduled for the Convention next month.

NATIONAL ASSOCIATION OF GARDENERS.

A meeting of the members of the National Association of Gardeners attending the Convention of the Society of American Florists, in Minneapolis, Minn., will be held in the Armory on Wednesday evening, August 20th, at 7.30 o'clock and to which all gardeners are invited. There will be no routine business. The meeting is called simply to offer an opportunity to the members from the East to become acquainted with their western brethren. Following the meeting the members will adjourn to the lecture to be given by Theodore Wirth on the "Parks and Boulevards of Minneapolis."

M. C. Ebel, Secretary.

E. F. Kurowski and P. L. McKee of the John C. Moninger Co. will attend the convention at Minneapolis and have charge of the company's large exhibit there. There will be a complete iron-frame house and one of the famous Moninger Boilers, as well as details of the various construction materials made by this firm. The company extends a warm welcome to its many friends to meet them there at this great convention.



Isaac S. Hendrickson
President American Gladiolus Society.



Wallace R. Pierson
President American Rose Society.



William Sim
President American Sweet Pea Society.

NEWS FROM THE CONVENTION CITY.

The following additional exhibitors have taken large blocks of space in the trade section:

H. Bayersdorfer & Co., Philadelphia, Pa.; J. B. Deamud, Chicago, Ill.; Peters & Reed Pottery Co., South Zanesville, Ohio; T. H. Wright, Los Angeles, Cal.; McNeff-Swanson Co., Chicago, Ill.

Arrangements are now all completed and the local committees deserve much praise for the very creditable manner, in which all details of the convention have been carried out. A large attendance is looked for. Indications point to a large attendance from the west and northwest. To show proper courtesy and consideration to the local societies visitors are requested to be seated promptly at 2 P. M. in the ball room on Tuesday where the opening exercises will take place, and Mayor Wallace G. Nye, will deliver his address of welcome. The Florist Telegraph Delivery will have permanent headquarters in the Armory, and Albert Pochelon, their hustling secretary, will be in constant attendance to enlighten those who are not already members of the great mutual benefit derived from belonging to this branch of the S. A. F.



THEODORE WIRTH

Vice-President S. A. F. and O. H., and Chairman Executive Committee of the S. A. F. and O. H. Convention Association, Minneapolis.

Applications for membership in the S. A. F. are coming in freely, and the record for new members will likely equal or exceed that of the great 1912 convention held in Chicago.

Retailers will please take notice.

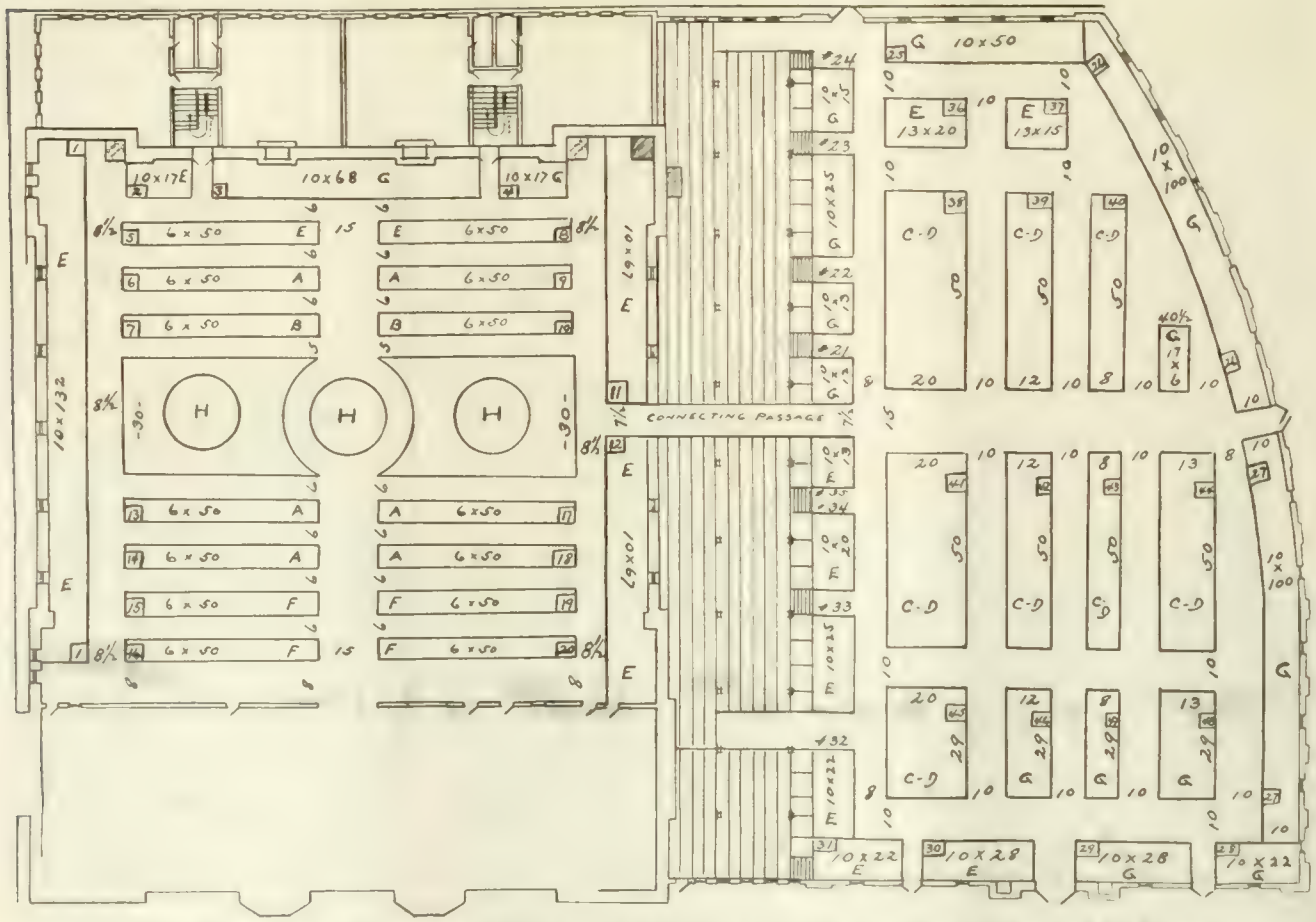
R. E. Loeben, Gloversville, N. Y., has donated $50 to be used for some purpose at the S. A. F. Convention and Exhibition in the advancement of floriculture. The advisory committee has decided to offer this in two prizes—to be known as the R. E. Loeben prizes.

First—Loving cup, valued at $30; second, loving cup, valued at $20, for the Best Table Decoration.

Rules Governing Competition—To be a round table and not to exceed 6 ft. in diameter, set for four persons, floral arrangement only to be judged. The exhibit must be in place not later than 12 o'clock, noon, of the second day, or Wednesday, August 20th. Entries must be made to John Young, Secretary, S. A. F. and O. H. Flowers to be kept in fresh condition for the balance of the week. Table and accessories to be furnished by the exhibitor.

Mr. C. N. Ruedlinger, chairman of the local committee on sports, has been very busy securing prizes, and arranging the details of the bowling tournament, and the sports which will take place on the day of the outing at Tonka Bay. Mr. Ruedlinger announces that he has received from Hess & Swoboda, Omaha, the very interesting prize of a life membership in the S. A. F. This, to the writer, seems to be the most interesting prize ever offered at any convention, and if other donors of prizes would do likewise they would find that the same would be very attractive.

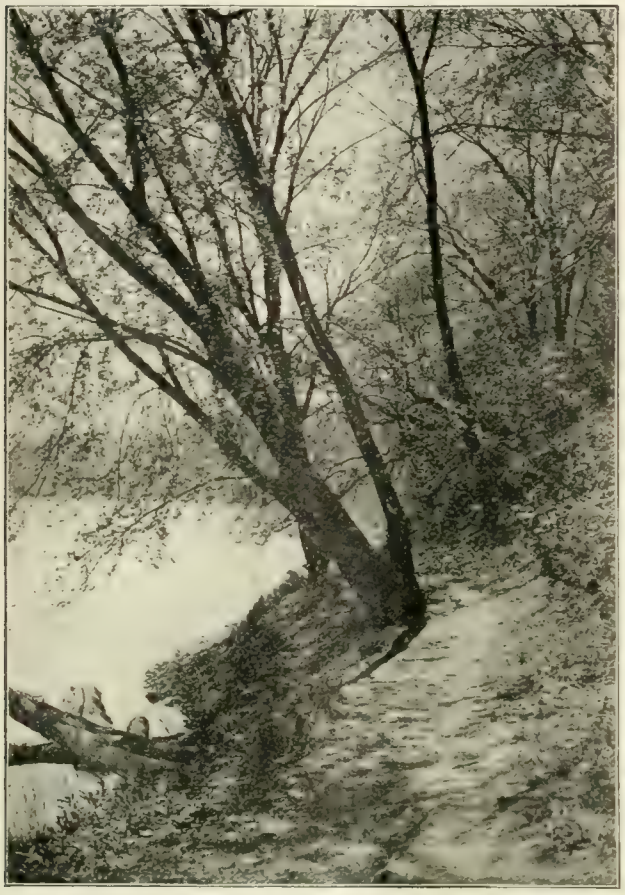
JOHN YOUNG, Sec'y.

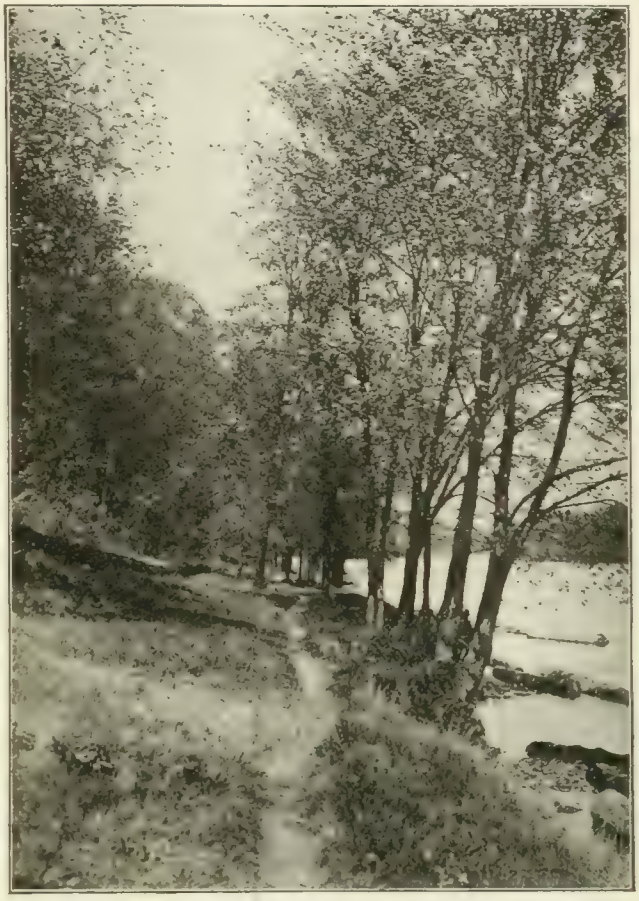


FLOOR PLAN, MAIN HALL AND COLISEUM, NATIONAL GUARDS' ARMORY, MINNEAPOLIS, MINN.

Exhibition Classes—A, Plants; B, Cut Blooms; C, Boilers and Heating Apparatus; D, Greenhouse Appliances (including Flower Pots); E, Florists' Supplies (including Fancy Earthenware); F, Bulbs, Seeds and Garden Requisites; G, Miscellaneous; H, Competitive Exhibits.

VIEWS IN MINNEAPOLIS PARKS





Along the Banks of the Mississippi River.



Trail Along the Banks of Lake Calhoun.



Path Through Interlachen.

SOME BUSY MEN AT MINNEAPOLIS



L. L. May
Trustee Minnesota State Florists' Association.



Olaf J. Olson
Vice-President Minnesota State Florists' Association and Ch'm'n St. Paul Com.



Hugh S. Will
Pres. Minnesota State Florists' Association and Ch'm'n Entertainment Com.



Sky-Line View of Down-Town Minneapolis



V. S. Ries
Treasurer Minneapolis Florists' Club.



Elof P. Holm
Treasurer Minnesota State Florists' Asso.



Stephen D. Dysinger
Secretary Minnesota State Florists' Asso.

SOME BUSY MEN AT MINNEAPOLIS



W. D. Desmond
Pres. Minn. Florists' Club, Chairman Hotel Com.



R. A. Latham
Vice-Pres. Minn. Florists' Club, Chairman Decoration Com.



C. N. Ruldinger
Chm'n Sports Com., Tr'stee Minn. Florists' Club and M. S. F. A.



Le Roy Cady
Trustee M. S. F. A. and Ch'm'n University Committee.



Wm. H. Bofferding
Tr'stee M. F. C., C'hm'n Rec. Com.



Chas. J. C. Hauck
Trustee Minn. Florists' Club.



Cal. F. Rice
Sec. M. F. C., Ch'm'n Press Com.



J. S. Mitchell
Chairman Finance Committee.



Hans Rosacker
Chm'n Badge and Ticket Com.



J. G. Taylor
Chairman Transportation Com.



J. A. Ridgway
Chm'n Souvenir Album Com.



Gust. Malmquist
Chairman Information Com.

CONVENTION LADIES

LADIES' SOCIETY OF AMERICAN FLORISTS.

Tuesday, August Nineteenth, First Day. 8 P. M.—President Farquhar's Reception—Gold Room, Balcony Floor, Hotel Radisson. Music, Dancing, Refreshments.

Wednesday, August Twentieth, Second Day. 10 A. M.—Twelfth Annual Meeting—Convention Hall, Committee Room D.

12 M.—6 P. M.—Auto Trip—Around City and Park System. Luncheon—At Minnikahda Club. (Guests of Ladies of Minneapolis Florists' Club). Evening Open.

Thursday, August Twenty-First, Third Day. 10 A. M.—Bowling Contest—At Central Bowling Alleys, 4th Floor, Corner 6th Street and 1st Avenue N. Afternoon Open—Minneapolis ladies will be glad to act as guides to stores and places of interest.

8.30 P. M.—Reception—Gold Room, Balcony Floor, Hotel Radisson.

9.30 P. M.—Dancing, Refreshments.

Friday, August Twenty-Second, Fourth Day, 9.15 A. M.—Automobile Trip—Starting from Hotel Radisson to St. Paul. (Guests of St. Paul Florists.) Return to Hotel at 5 P. M.

8 P. M.—Special S. A. F. and O. H. Concert—By Minneapolis Orchestral



MRS. FRANK H. TRANDLEY..

President, Ladies' Society of American Florists.

Park Band at Lake Harriet. (Compliments of Board of Park Commissioners.)

Saturday, August Twenty-Third, Fifth Day. 9 A. M.—Outing—To Lake Minnetonka. Special cars from 6th Street between Hennepin Avenue and 1st Avenue N.

MINNEAPOLIS FLORISTS' CLUB.

The August meeting of the Minneapolis Florist Club was held Tuesday, the 6th, at Rice Brothers' store, with an attendance of forty.

Theo. Wirth spoke on the Convention and his remarks were to the effect that the Convention Association of Minneapolis which is the organization formed to carry on the work of this important event had indeed made a creditable showing, the work being well in hand and all in shape for the visiting trade.

S. A. F. Secretary John Young was in attendance, appealing to all not members to get busy and join the ranks of the National Society and his work is not fruitless as shown by the results. His aid here on work being done is certainly appreciated and saving valuable time.

Geo. Asmus of Chicago, also made cheering remarks.

A fifty-dollar donation was made by R. E. Loeben of Gloversville, N. Y., to be expended as the advisory board decides for the advancement of floriculture.

The Western Union Telegraph Company will establish an office at the Convention Hall and all incoming messages to delegates will be delivered promptly as names of parties attending and address will be kept.

CAL. F. RICE, Secretary.



MRS. THEODORE WIRTH

President, Minneapolis Ladies Florists' Club.



MRS. A. S. RICE

Vice-President, Minneapolis Ladies Florists' Club.



MRS. C. F. RICE

Sec'y and Fin. Minneapolis Ladies' Florists' Club.



MRS. W. D. DESMOND

Captain Ladies' Bowling Club.

CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The 15th annual meeting of this association will be held at Denver, Colo., on August 25, 26, 27, 1913, headquarters, Brown Palace Hotel.

Programme.

MONDAY, AUGUST 25.—Address of welcome by J. S. Macbeth, president of Park Board, and other city officials. Response by President James B. Shea. Paper on "Playground and Recreation Facilities and Their Management," by Edw. De Groot, general secretary, Playground Association of Chicago. Lunch at City Park. Outdoor meeting of Association on lawn at City Park. "Field Demonstration of the Flora in the Vicinity of Denver," by John Berry. Auto ride of portion of parks and parkways. Dinner, Montclair Civic building. Attend band concert, moving pictures and electric fountain, City Park.

TUESDAY, AUGUST 26.—Lecture on "The New York Idea of a Zoological Park," by Herman W. Merkel, forester, New York Zoological Park. Illustrated with lantern slides. "The New York Botanical Gardens," by Geo. V. Nash, head gardener. Illustrated with lantern slides. Lunch at headquarters. Lecture on "The Care and Planting of Ornamental and Shade Trees," by J. J. Levison, B. A., M. F., forester, Brooklyn Park Department. Illustrated with lantern slides. Auto ride over city, inspecting parks and playgrounds. Auto ride to Elitch's Gardens to attend performance of stock company.

WEDNESDAY, AUGUST 27.—Auto ride to Mountain parks. Lunch on Genesee Mountain. Informal discussion on "Municipal Nurseries," led by Messrs. Boddy and Alber, and on "Boulevard and Road Surfaces Suitable for Both Pleasure and Traffic," by Ralph R. Benedict. Trip back to Denver, via Bear Creek or Turkey Creek.

For information regarding parties attending the convention from the different sections of the country, address the member of the transportation committee nearest you, as follows:

Theo. Wirth, Supt. of Parks, Minneapolis, Minn.; John W. Duncan, supt. of Parks, Spokane, Wash.; H. S. Richards, Asst. Supt. of Parks, Chicago, Ill.; H. Merkel, Forester, Zoological Gardens, New York City; J. J. Levison, Prospect Park, Brooklyn, N. Y.

ST. LOUIS FLORIST CLUB.

There was a large attendance at the Florist Club's annual meeting, which was held Thursday afternoon, Aug. 7th, in the meeting rooms of the Odd Fellows building. Fred H. Weber presided over the meeting with all his officers and nearly half of the membership present. Reports were heard from the trustees, flower show committee and S. A. F. Convention transportation committee. $100 was set aside to be offered in special prizes at the fall flower show.

The election of officers resulted as follows: President, W. J. Pilcher; vice-president, Adolph Jaenicke; secretary, J. J. Beneke; treasurer, Wm. C. Smith; trustees, Frank Windler, chairman, Wm. Ossick and John Connor.

Frank Robinson, who will manage the fall flower show, spoke at length on the progress of the show. The committee to raise the $2000 among the florists reported nearly $1500 had been subscribed. State Vice-President Denker stated that all arrangements had been completed for the convention trip and that 32 would leave here Thursday, Aug. 14. A. Jaenicke will read a paper at the next club meeting on "Gassing Against White Fly," Thursday, Sept. 11th.

NEWPORT HORTICULTURAL SOCIETY.

The regular meeting of this society, held on the evening of August 12, was of more than usual importance. It was voted to hold the autumn exhibition in the Convention Hall at the Public Beach on Sept. 16, 17 and 18, and to have the annual ball on the evening of the third day of the show at the same place. At the rquest of the Newport Garden Associaton it was decided to join that organization in holding a show in June, 1914, proper accommodations for all kinds of exhabits being promised by the Association.

William Gray was elected recording secretary, to fill the vacancy caused by the resignation of D. J. Coughlin, who has also resigned his position as gardener for Mr. E. Rollins Morse to take charge of the estate of Mr. H. P. Davison, at Locust Valley, Long Island. At the close of the regular business Mr. Coughlin was presented with a handsome gold watch and chain by the members as a token of appreciation of his valuable services as secretary of the society during the past six years. As a mark of respect for Mrs. Coughlin a handsome gold pin was also provided for her. The presentation speech was made by Treasurer A. K. McMahon, who is highly gifted in the art of such duties. Appropriate refreshments followed.

J. ROBERTSON.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

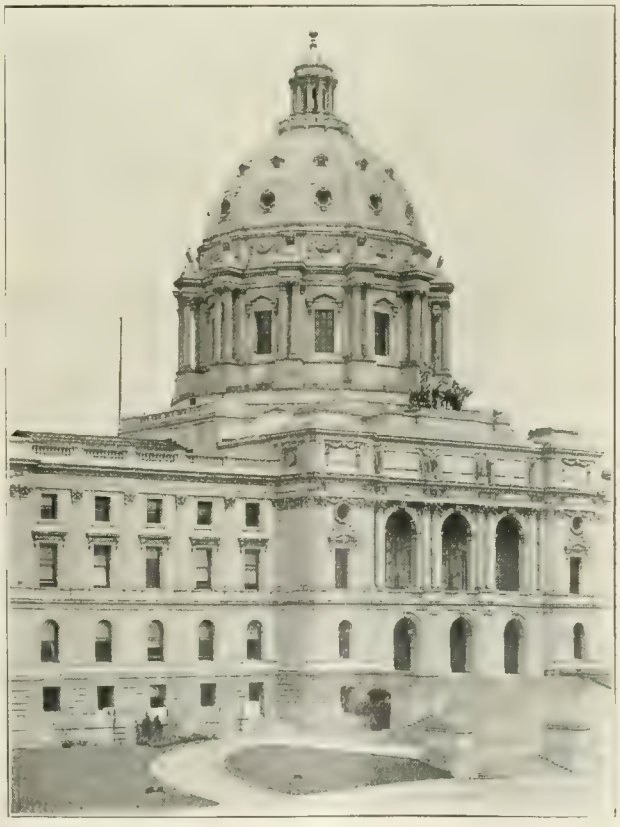
The regular monthly meeting of this Society was held in Doran's Hall, Greenwich, Conn., August 8th. An interesting discussion took place on the diseases of shade trees, a subject now requiring very close attention. The schedule for the fall show which is to be held in Stamford, November 7-8th, is now in the hands of the committee, and will be out in a few days. Excellent classes are drawn up with substantial prizes offered. We are, therefore, hoping for large entries and keen competition. The few choice exhibits at this meeting were judged as follows:

Cultural Certificates to Wm. Morrow and Adam Paterson for grapes. Honorable Mention to Thos. Ryan for cannas and sweet peas; Thos. Aitchison for Laelio-Cattleya Bletchleyensis. Vote of Thanks to James Stuart for Viola atropurpurea; Carl Harkansen for Gladioli; Anthon Peterson for seedling delphiniums; F. Sageratam for Gladioli, Veronica spicata, Marguerite carnations and asters; P. W. Popp for montbretias and Ismene; and Adam Paterson for new sunflower.

OWEN A. HUNWICK, Cor. Sec'y.

CANADIAN HORTICULTURAL ASSOCIATION.

The annual convention of the Canadian Horticulturist Association opened in the Reception Hall of the



MINNESOTA'S MAGNIFICENT STATE CAPITOL IN ST. PAUL

Armories, Peterboro, Ont., on Tuesday, Aug. 5. About one hundred delegates attended. After a civic welcome by Mayor Bradburn, the report of the secretary-treasurer was presented, showing a credit balance of $173.16. The report of the Tariff Committee was presented, and, pending action on the tariff by the Government, was referred back to the committee. Park Commissioner Chambers, of Toronto, was to have addressed the meeting on "Parks and Boulevards," but was unable to be present on account of a fire at the Exhibition Park. The balance of the program for the three-days' convention was successfully carried out, much time being devoted to sight seeing and entertainment.

CLUB AND SOCIETY NOTES.

The annual exhibit of annuals and perennials of the Lenox Horticultural Society will be held in the Town Hall, Lenox, Mass., August 20 and 21. Fruits and vegetables will also be featured.

The St. Louis County Growers held a meeting at Kirkwood on August 6. W. J. Pilcher presented a list for subscriptions for the flower show, which was subscribed to by all present. Wm. Winter, a member, stated that he had been married that day and a fine spread awaited the members at the close of the meeting. Mr. Winter received congratulations on all sides and at the close was voted a jolly good fellow.

RUTHERFORD, N. J., NOTES.

Orchids are scarce at the Julius Roehrs houses at present, a few Gaskelliana and gigas being about the only bloom in sight but the labiatas will begin to come in early in September and then there will be an abundance. A house of calanthes impressed us as the finest lot of these desirable plants we have ever seen. The rest of the big establishment is in elegant condition, giving evidence in plenty that this well-known plant growing place will, under the management of the second Julius, fully maintain the prestige it attained under his late father. The outside nursery department is under the care of Rudolph Roehrs and the orchid range is in charge of Mr. Ianson, who is well qualified by experience to assume this important responsibility.

At Bobbink & Atkins' nurseries just now the special interest centres in the hybrid hibiscus which have been developed here to a wonderful beauty and perfection. The flowers are enormous with great luscious overlapping petals in every tint and combination from pure white to dazzling crimson. Some of the pink varieties come in the softest and purest tones without a trace of the crimson eye which is usually found in these flowers. The rose garden is also a prime attraction and now that the cooler moister weather is here the hybrid teas are beginning to sparkle with color. There are fully 500 varieties in this interesting collection. The herbaceous grounds, which are in the care of Mr. Ehrle, are an expanse of beauty at all times.

BRITISH HORTICULTURE.

Bitter Pit in Apples.

Professor C. T. Lewis, chief of the Divison of Horticulture of the Agricultural College, Corvallis, Oregon, U. S. A., is obtaining information in reference to bitter pit in apples. He has lately written to C. H. Hooper, librarian at the Agricultural College, Wye, Kent, asking his co-operation in collecting data, and efforts are being made to secure information from British fruit growers. The same disease is causing some anxiety in Australia. D. McAlpine, vegetable pathologist for Victoria, has been requested by the Federal Government to investigate this disease, which for many years has caused serious havoc in the orchards. In the first report presented it is shown that neither insects nor fungi, bacteria, nor external agencies are concerned in the production of bitter pit. The cause rather is internal, and must be sought for in a study of the structure and physiological processes of the apple itself.

Provincial Rose Show.

The National Rose Society held a highly successful provincial exhibition at Gloucester, on July 15th. According to the secretary, this was the largest provincial show held by the society, whilst the general quality was far in excess of anything they had seen before. The first prize in the chief trade class, carrying with it the Jubilee trophy and gold medal, was awarded to Hugh Dickson, Ltd., Belfast, Ireland. In the trade section silver medals were awarded to the following best blooms in the show:

H. T., H. V. Machin, shown by Alex. Dickson & Sons, Newtownards, Ireland; Tea, Mrs. E. Mawley by D. Prior & Sons, Colchester; H. P., A. K. Williams, shown by the King's Acre Nurseries, Hereford. There was an excellent collection of seedlings. S. McGredy & Son, Portadown, Ireland, received a gold medal for each of the following: Florence Forrester, a bold white; Colleen, rosy pink H. T.; Iona Herdman, decorative variety, similar in tint to old gold; Mrs. F. W. Vanderbilt, peach color. Hugh Dickson, Ltd., received gold medals for Mrs. Archie Gray, lemon tinted H. T.; Countess Clanwilliam, cream H. T.; Gorgeous, pink, suffused orange. Alex. Dickson & Sons were awarded a gold medal for G. Amedee Hammond, of a pleasing golden hue. S. McGredy & Son also received a silver-gilt medal for Eileen Smiley, a H. T. of a striking shade of orange, with a deeper tinted base.

W. H. Adsett.

THE CATTLEYA FLY.

Editor HORTICULTURE

Would like to ask through your valuable paper how to get rid of Cattleya fly.

Yours truly,

P. E. H.

I find the best way to get rid of the Cattleya Fly is to isolate the affected plants from the others and fumigate two or three times a week with Nicoticide during the day, when the weather is cloudy. The fly usually is hidden at night and cannot be reached so effectively as in the daytime, when flying about. If you will keep it up for two or three months you will get rid of them entirely.

Jos. Manda

EUROPEAN RAMBLINGS.

Belgium—little Belgium, but, for its size, the densest populated country of Europe, with a glorious record for fine old history and a fine collection of old historical reminiscences and fine old art. Bruges, Ghent, Malines, Antwerp, Brussels, what a quantity of old treasures can be found there! And Ghent, the center of horticulture, is likewise the city where the treaty of peace was signed between "Auld England and Young America," after the war of 1812. Since then, peace forever between the two nations, the grandest powers of our own modern times. Landing at Antwerp, towards the end of May, of course my ramblings went soon towards Ghent, the center of Belgian horticulture, if not of the European countries. We do not count the horticultural establishments there, we merely see them in passing through the town in its various directions By the courtesy of Mr. Leon Kerkvoorde, who with his two brothers continues the paternal firm of C. Kerkvoorde—nurseryman and horticulturist—founded many years ago, I was taken quickly from the Hotel dela Poste through the Ledeberg district out to his extensize nursery plant, and was impressed by the vastness of this establishment. Rhododendrons, *en masse*, in the best hardy and forcing varieties; Azalea indicas for the florists' forcing, grown in the best of soil, no need of artificial manuring; Simon Mardners, V. der Cruysens, Mad. Petricks and the average run of best sorts were there, all in fine shape. The new French hydrangeas, lilacs, prunus, almonds, etc., etc., and last but not least the roses. Not much advanced by the end of May were these, but early in July, at a second call, a glorious sight. About 250,000 roses are grown on this place, mostly the better and newer kinds of hybrid perpetuals, hybrid teas and hybrid Pernettianas. Besides another 250,000 mostly of the old standard sorts of hybrid perpetuals are grown under contract for this firm. Tree roses in standard and half-standards; and an extra fine selection of tall weeping standards on 5 to 6 and 6 to 7 ft. stems in sorts like Crimson Rambler, Dorothy Perkins, Lady Gay, Tausendschoen, Alberic Barbier and so on, real treasures to look upon. Of the different newer kinds, not exactly the latest, I noticed as of apparent special merit: His Majesty, a bright crimson scarlet H. T. with strong wood; Jonkheer J. L. Mock, a close rival, of bright crimson pink; Marquise de Ganay, LaFrance color, fragrant, and, as it seemed, an improvement on the old LaFrance. Jenny Guillemot, a very promising H. T. of saffron yellow color. Other roses of merit were all well represented. In the nursery stocks the leading coniferous kinds were largely grown; also forest tree seedlings and larger trees. Quite a fine assortment of the fancy trained fruit trees is to be found here. The major part of a day was spent in inspecting this vast establishment. After a hospitable repast the return trip to old Ghent was made by auto, Mr. Leon Kerkvoorde acting as chauffeur, and arrived just in time to find shelter in the Cafe Gambrinus from a thunder storm with pelting rain. Good success to the live establishment of C. Kerkvoorde is the wish of Yours truly, W. R.

DURING RECESS

Florists' Club of Washington Entertained.

Members of the Florists' Club of Washington and the eleven "Minute Men" who are about to carry the American flag to the German maneouvre camps, acting as a guard of honor to the German veterans, were the guests of Edward S. Schmid at the crab feast which he annually tends to the local florists and friends.

The affair was held in the conservatory of the store of F. H. Kramer, following the regular business meeting of the club. William F. Gude acted as master-of-ceremonies and although he said no speeches were to be made, a score of those present were called upon to do their part in enlivening the evening.

Col. Robert L. Montague acted as chief orator. Col. M. A. Winter spoke briefly for the Minute Men. Prof. Simmons, of the Maryland Agricultural College, and Richard Vincent, Jr., of White Marsh, Md., were also among the well-known speakers.

The girls now playing in "The Queens of Paris" at the Gayety Theatre furnished most of the evening's entertainment and these were ably assisted by other talented performers, both professional and amateur.

Among those present were Edward S. Schmid, Otto Bauer, F. H. Kramer, D. G. Grilbootzer, William F. Gude, John Robertson, William E. McKissick, Robert McLennan, G. E. Anderson, Harry B. Lewis, George E. Dalglish, John J. Barry, Wallace W. Kimmel, George H. Cooke, C. Leslie Reynolds, J. Harpe, Hetherington, Edward L. Bowers, William H. Ernest, Elmer C. Mayberry, George C. Schaffer, O. A. C. Oehmler, John Gutman, Adolph Gude, Richard Vincent, Jr., of White Marsh, Md.; John L. Towner, of Baltimore, Md.; C. Albert Shopper, W. A. Furmage, William C. Pratt, George W. Engle, William Schoneberger, Paul C. Ziehl, L. C. Shattuck, W. O'Brien, W. E. Grimes, Dr. L. L. Friederich, F. H. Walker, Mendel Behrends, Albert F. Esch, Joseph Goldsmith, Harry MacKeldin, John W. Clark, C. H. Bradley, C. M. Ellis, Frank D. Roys, Charles A. Stevens, M. J. Fellius, Dr. G. N. Pagett, Willard M. McConnell, D. W. Thayer, Dr. W. H. Wunder, Colonel M. A. Winter, John J. Costinett, W. E. Evans, H. B. Elliott, Abe Schmid, A. S .Holstein, David Wolf, Colonel E. L. Montague, I. A. Goldsmith, B. E. Dukin and Louis Hartig.

Captain Fred H. Kramer and "Captain" Adolphus Gude, members of the company of eleven Minute Men of Washington will leave for New York on Monday next to take passage for Germany where they will be guests of the "Deutscher Kameraden und Patrioten—bund von Amerika." While abroad they will go into camp with the German troops near Leipzig and will later be received by the Lord Mayor of London and the Ancient and Honorable Artillery of London.

Oyster Bay Horticultural Society.

Anyone having an idea that all the word horticultural means is the raising of flowers and sich, should have attended the outing of the Oyster Bay Horticultural Society to be taught that they can raise the deuce as well. There were gardeners, horticulturists, wives, sweethearts and kidlets and all were there for the "fun of the thing" and they found it. Scotch (language) was largely predominant, and this was about all the Scotch there was in sight (on the field). The sports began early in the afternoon and if there was ever an enjoyable occasion this was it. The ladies entered into the spirit of the games with as much enthusiasm as the men, and they could go some at that. At six o'clock, after all the events had been pulled off, all proceeded to wash up and put themselves in proper form for appearing in the dining room, and here they sat down to one of Rothmann's famous dinners and every inch of dining room space was utilized, and judging from the rapidity with which the viands disappeared, Rothmann should see that there were no sports indulged in in the future, because exercise was a great appetizer. Following were the sports and the winners in each:

Girls' Race, under 8 years—Margaret Devers, 1st.

Girls' Race, under 15 and over 8 years—Margaret Robinson, 1st; Catherine Ryan, 2nd.

Boys' Race, under 8 years—John O'Neil, 1st; Alfred Walker, 2nd.

Boys' Race, under 15 and over 8 years—William Duckham, 1st; James Duckham, 2nd.

Ladies' Race—Mrs. J. Emslie, 1st; Mrs. F. Devers, 2nd.

Men's Race—M. Collins, 1st; J. McIntyre, 2nd.

Sack Race—J. Ingram, 1st; M. Collins, 2nd.

Three Legged Race—J. McIntyre and M. Collins, 1st; J. Ingram and D. Beaton, 2nd.

Fat Men's Race—J. Sorosick, 1st; W. Robertson, 2nd.

Ladies' Potato Race—Mrs. Emslie, 1st; Mrs. Devers, 2nd.

High Jump—J. Tyman, 1st; M. Collins, 2nd; Height, 5 feet.

Throwing the Hammer—J. Ingram, 1st; W. Robertson, 2nd. Distance, 59 feet, 4 inches.

Putting the Shot—J. Tyman, 1st; W. Robertson, 2nd. Distance 28 feet, 6 inches.

High Step and Jump—J. McIntyre, 1st; M. Collins, 2nd. Distance, 29 feet, 4 inches.

Running Jump—J. Tyman, 1st; M. Collins, 2nd. Distance, 16 feet, 4 inches.

Obstacle Race—J. Ingram, 1st; A. Walker, 2nd.

Threading the Needle Race for Ladies—Mrs. McKenzie, 1st; Mrs. Emslie, 2nd.

Catching the Rooster—Mrs. Devers.

Quoits—W. Robertson, 1st; J. Ingram, 2nd.

Ladies' Race (Burnett prize)—Mrs. Devers, 1st; Mrs. McKenzie, 2nd; Mrs. Emslie, 3rd.

Men's Race (Collection prize)—M. Collins, 1st; T. Moore, 2nd; A. Lahodney, 3rd.

Ball game between married and single men, resulted in a tie. Umpire H. M. Bennett; Scorer, J. E. Remsen.

Worthy of special mention were the home runs made by W. Robertson and J. A. Goldsmith.

Oyster Bay Guardian.

Buffalo Florists' Club.

One of the best attended meetings of the Buffalo Florists' Club took place at Bedell House, Grand Island, on Thursday last, and with beautiful weather, which made it a grand success. There was not a dull moment from beginning to end; something doing every minute. The ball game was the main feature of the sports and the growers vs. the storemen was on the program. This proved to be the best game that has ever taken place between these opponents and the growers won by the score of 8 to 7. The tug-of-war was exciting and the growers again won by a small margin. There were a number of other events, such as 100-yard dash, old men's race, ladies' and children's race, sack and three-legged race, etc., in which the afternoon was well taken up.

Dinner was had in the banquet hall, which was decorated in the club's colors. Bowling and dancing concluded the day's program, on which the committee is to be congratulated. We were pleased to have with us a number of out-of-town growers who never have attended these outings and who were willing to take in more of the good time.

ARCADE BOWLING ALLEYS, MINNEAPOLIS.



Where the S. A. F. Bowling Tournament will take place. Finest Bowling Alleys in the West.

A MASSACHUSETTS GLADIOLUS FARM

It will be a busy time for the gladiolus expert, from now on, sorting, grading and discarding. Discarding is the most important part of the work, for if the specialist wishes to keep up his standard, upon which rests his reputation, he must continually discard.

The writer was interested to see the number of people visiting the gladiolus trial grounds and farm of Chamberlain & Gage at South Natick, Mass. They frequent the farm generally on Sundays, and are sure to carry a bouquet home with them.

These men are growing about 40,000 seedlings, which are being tested and improved by cross-breeding. Their work is especially on the Lemoinei type, with the object of securing a large flower and eliminating the hooded type peculiar to gladiolus Lemoinei. Colors are coming freely in light and white shades. There are some brilliant reds and cream shades. Mr. Gage is working to get larger blues, with more intense blue color, eliminating as much as possible all purple tints, and developing at the same time a better formed flower with bold and distinct markings. The hardest color to obtain in a gladiolus is a dark golden shade. In this Mr. Gage is in a fair way to succeed. He has some distinctly beautiful seedlings of various shades of yellow,—from apricot to almost pure yellow, and, for this color, he has some remarkably well-formed flowers, and full spikes. There are several promising whites; at least three will be heard from in the near future.

In raising seedlings, Mr. Gage plants his seed in beds about the middle of May, when the ground is warm, and keeps them covered until the little plants begin to appear above ground. They need lots of air and sun after they are well started, and plenty of water, if the bed is liable to suffer from drought. Preference is given to sterile soil, because the weaker seeds will not survive long in a poor soil, and much of the struggle for existence—for the survival of the fittest—is ended in the seed bed. Those that do grow prove more vigorous and healthy. When the plants are up some good commercial fertilizer is added for a top dressing, and later hardwood ashes. Occasionally, the seedlings bloom the first year, but most of them the second, and all the rest bloom the third year. Then comes the task of selecting those that are worthy of propagating. It takes two or three years after that to determine their worth. Some will improve, others deteriorate. It is not safe to finally discard until the third year.

Mrs. Frank Pendleton, Jr., has proved one of the best varieties yet introduced. It was awarded a first class certificate of merit in 1909, by the Mass. Horticultural Society, and in Baltimore, it was honored by the American Gladiolus Society with a certificate. The coloring of the flower is exceptionally beautiful, a rich, soft pink, shading to darker tints in striking contrast with the brilliant carmine patch on the minor petals. Such coloring may not produce the delicate, subtle beauty that is the charm of America, nor the majestic beauty of Rajah, nor the poetic, winsome beauty of Spring Song and Myrtle, nor the quiet stateliness of Daisy Rand. But Pendleton has a beauty all its own; a brilliant, dashing, compelling beauty, that makes you stop and admire.

Mr. Chamberlain obtained a silver medal for Rajah, awarded by the Massachusetts Horticultural Society in 1911. Rajah is a deep, rich red, suffused with a darker tint. In 1912, a silver medal was awarded by the Massachusetts Horticultural Society for Myrtle, a tender and delicate rose pink.

Chamberlain & Gage have many novelties listed. The best of these are: Amaryllis, a blood red color; cherry King, deeply tinted; Daisy Rand, with an ivory white ground color; Lillian Morrissey, bright cherry; Mrs. L. Merton Gage, glistening white; Mrs. Malcolm Mackay, intense red, with a patch of white on the lower petals; Mrs. G. W. Moulten, the color of American Beauty rose; Myrtle, before described; Richmond, rosy crimson; Spring Song, primrose yellow suffused with soft pink; Clarice, rose pink, flaked with a deeper tint; Mary Bancroft, creamy white; Mary Fennell, deep lavender, shading to a paler tint.

A striking feature of the blooms is their very remarkable color, so rich, brilliant, and true to name. The flowers bloom profusely on strong spikes, some of the blooms measuring six inches in diameter. Grown on sandy soil, the bulbs may not have the size they would have on a richer, heavier soil, but they have substance and blooming qualities, which is far more important.

It is the practice of most growers to take varieties which are losing caste or rank, and throw them in with the "mixed." No one can complain if he gets what he asks for, for mixed seedlings are cheap enough. But any man with a care for his reputation will not throw in all the rubbish he has. If he wants to sell his "mixed" he must put something pretty good in with them, as well as weed out during the blooming season many poor ones—for even good varieties deteriorate, and one has to be constantly on the alert to keep up his standard as well as his reputation. Both go together, which is a very important consideration from a business point of view, when we remember that many of the great gladiolus raisers "started in" with a few mixed varieties.

WM. H. HATFIELD.

Wellesley, Mass.

GLADIOLUS SHOW AT BOSTON.

A superb display of gladioli, phloxes, lilies and herbaceous flowers in general, together with a remarkable array of fruit and vegetables attracted a large attendance of visitors at Horticultural Hall, Boston, last Saturday and Sunday. A beautiful display of gladioli was made by B. Hammond Tracy. His exhibit occupied a long table at one side of the hall and comprises 800 stalks arranged in a most artistic manner and comprising no less than eighty-five varieties, including two new ones—Barbara, orange salmon and Gold Thread, scarlet pencilled with bright yellow.

Chamberlain & Gage also made a fine showing of their specialty, many superb new varieties attracting the attention of the gladiolus fanciers.

In the centre of the hall R. & J. Farquhar & Co. duplicated the arrangement used for the sweet pea exhibition a month ago, with canopied entrances from four sides, and a fountain in the centre. The rare Lilium Henryi was the flower exclusively used and it scored an immediate success.

Mt. Desert Nurseries made an impressive exhibit of hardy herbaceous plants, in which were great masses of aconites, hybrid astilbes, campanulas, etc., also fine gladioli. Eastern Nurseries were also well represented. The following list of awards will give adequate idea of the other exhibitors and what they staged.

FLOWER AWARDS

Perennial Phloxes, 1st, Eastern Nurseries; 2d, William Whitman; 3d, F. J. Rea. General display in not less than thirty vases, 1st, F. J. Rea; 2d, Eastern Nurseries; 3d, T. C. Thurlow. Gladioli, twelve named varieties, 1st, C. W. Browne; 2d, C. W. Browne; 3d, A. W. Preston. Display arranged for effect with any foliage, 1st, Mrs. Frederick Ayer. Cham. esters, 1st, William Whitman. Asters, general display, 1st, Mrs. J. L. Gardner; 2d, William Whitman.

GRATUITIES

C. W. Browne, for Gladiolus Mongolia, cultural certificate; B. H. Tracy, for gladiolus Barbara, honorable mention; Edward W. Ross, for Cattleya Miss Agnes Fitzgerald, first class certificate; Chamberlain & Gage, for Gladiolus Mrs. L. Merton Gage, honorable mention; Chamberlain & Gage, for Gladiolus Comet, honorable mention; Chamberlain & Gage, for display of gladiolus, honorable mention; R. & J. Farquhar & Co., for artistic display of Lilium Harrisii, silver medal; B. H. Tracy, for artistic display of gladiolus, honorable mention; Mrs. J. L. Gardner, for display of Anthurium Brownii, with other decorative plants; Mt. Desert Nurseries, for display of hardy flowers; Old Town Nurseries, for display of hardy flowers; Old Town Nurseries, for display of gladiolus; F. E. [illegible] gladiolus; A. W. [illegible] sweet peas; Edward L. Lewis, sweet peas; Mrs. C. G. Weld, gladiolus; Mrs. E. M. Gill, for display of cut flowers; Eastern Nurseries, for display of hardy flowers; William Whitman, gladiolus and hardy flowers; R. & J. Farquhar & Co., Salpiglossis hybrids; Mrs. [illegible] Ayer, Montbretias; R. & J. Far[illegible] & Co., Lilium Speciosum.

SOME GLADIOLUS QUESTIONS.

The following letter is self-explanatory. We hope our readers will do what they can to help along this good work which Cornell University and the American Gladiolus Society are trying to do.

Editor, HORTICULTURE, Boston, Mass.

Dear Sir: In connection with the trial ground work of the American Gladiolus Society here at Ithaca, N. Y., we have recently sent out to all the commercial growers of gladioli, a number of questions. These questions we have thought would cover somewhat a census of gladiolus growing, and we would like to have them put into as many hands as possible. We are sending you the questions, and wonder if you could publish them in your paper, for your paper would reach a large number of growers of gladiolus not members of the American Gladiolus Society. It seems important to all growers of gladiolus that such questions as "What varieties do you consider synonyms?" and "What varieties are different under the same name?" and so forth, should be answered. Should you print them, we wonder if you could head the questions with an appeal for anyone who has any thoughts along this line to correspond with us and discuss those questions he feels able to answer. We hope that you can cooperate with us in making this information as complete as possible. Thanking you in advance for the great help you can give us in this matter, I remain

Yours very respectfully,

ALFRED C. HOTTES,

In charge of Trial Grounds of the American Gladiolus Society.

What constitutes a bloom good for commercial use?

What constitutes a bloom good for landscape use?

What varieties do you consider synonyms?

What varieties do you think are different under the same name?

How deep do you plant gladiolus? What is your soil? What soil do you consider best?

What method of staking, if any, do you think practical?

Should varieties sent in to be tested be called "of poor commercial value" if they are other than light colors?

Do you find a commercial florist's demand for other than light shades?

Name a standard early, late, and mid-season variety.

Do you consider branches an advantage or a disadvantage?

What fertilizers do you apply and when?

What insects have you noted that did serious injury to the leaves or flowers of gladioli?

Have you ever treated bulbs with anything that seemed of any value against diseases, or do you use any precaution towards prevention?

How do you keep cormels (offsets) over winter?

How do you plant gladiolus seed?

What varieties do you consider rapid multipliers?

Do you consider curved spikes good or bad?

How large an acreage do you devote to gladiolus?

How many bulbs handled per year?

What do you consider to be the cost per acre?

What is the yield per acre of bulbs?

What is the yield per acre of flowers?

What is the value per acre for bulbs?

What is the value per acre for flowers?

In hybridizing gladioli, do you think there is a promising field using wild species other than those now used?

Would doubling be a great improvement?

Where is the greatest need for improvement?

At what time of day do you emasculate the flowers?

Do you bag the flowers? What kind of a bag do you use?

When do you pollinate?

With what instrument do you pollinate—brush or small piece of wood?

What type of flowers (what varieties) are you especially using as a parent now?

How many seed capsules do you allow per stem?

Do you know of any literature upon the breeding of gladiolus?

Have you any general remarks to make upon the breeding of the gladiolus?

Name .....

Address .....

SEEN AT BAR HARBOR.

On Monday and Tuesday, August 4 and 5, the garden committee of the Massachusetts Horticultural Society with several other invited guests visited the Mount Desert Nurseries of George B. Dorr at Bar Harbor, Me. This establishment, started some eighteen years ago, has now grown into a business of considerable magnitude, and on account of its peculiar advantages of location and environment is likely to continue to develop on very substantial lines. Hardy perennials, shrubs and conifers are the leading specialties. Of these there are fifty or more acres under cultivation, and with the combination of cool mountain air and damp sea breezes the sturdiness of growth and brilliancy of coloring are simply wonderful. Even the lawns display that vividness of green which those who know assert cannot be found anywhere this side of England and Ireland.

The Massachusetts Horticultural Society people had remarked with much interest the splendid eremuruses, astilbes and other garden specialties staged by Mr. Thatcher, the manager, at the Boston and other exhibitions, and were prepared for something out of the common, and were not disappointed. Perhaps the biggest surprise came in the sweet peas. The size and brilliancy of the flowers, the enormous growth and floriferousness of the plants place the Mt. Desert sweet peas in a class by themselves. Pentstemons, again, were of a size and lusciousness entirely out of reach in any ordinary climate. Here is probably the largest collection of aconites in any nursery in this country. When we state that the flower spikes stand from five to eight feet high on many of the plants, some idea of their growth is conveyed.

We will not go further into nursery details. We were particularly interested to see the Banksian pine growing wild here, Bar Harbor being the extreme southern limit of its home. Mr. Dorr is greatly interested in the preservation of the natural beauties of Mt. Desert. Through his initiative and persistent effort much has been accomplished to conserve the forest scenery and the picturesque mountains and crags have been set aside as public reservations for all time. Much damage has been done to the coniferous forests this year by the fir sawfly.

The visitors were lavishly entertained by their host, ably assisted by Manager Thatcher. Buckboard rides over the forest roads and visits to several of the finest private estates on this famous island were much enjoyed. The Kennedy estate, presided over by Mr. Burton, we have had occasion to mention heretofore. It is easily the finest estate on the Maine coast. The Italian garden is one of the few worthy of the name or of admiration. A Gloire de Dijon rose clambering over the enclosing wall was surveyed with incredulous wonder and the glory of the purple clematises was beyond description. In the greenhouses the grapes and melons, the gloxinias and begonias and gloriosas took all eyes.

At the Vanderbilt estate where Edward Kirk presides, the visitors were privileged to see where those wonderful flowers came from which almost completely swept the decks at the recent sweet pea show in Boston. Melon houses and tomato houses were in full bearing, Carter's Sunrise tomato making a most remarkable showing and being regarded by Mr. Kirk as the most prolific tomato in existence.

PUBLICATION RECEIVED.

The first number of The Florists' Trade Journal, (monthly) published in New York under the management of J. H. Pepper, has been received and is a very attractive magazine. The cover illustration is a fine colored plate of the rose Mrs. George Shawyer. We extend cordial good wishes to the newcomer.

NEWS NOTES.

M. J. Pope, at Naugatuck, Conn., has a very fine white sport from Dorothy Perkins rose.

An exceedingly pretty little hardy rose is the "Baby Tausendschoen," a very dwarf growing variety with flowers much like its large growing namesake and blooming continuously until November. We saw a fine lot of it in the Julius Roehrs Nurseries at Rutherford, N. J.

All Florists Are Cordially Invited

to call and see our stock when in Chicago on the way to or from the Convention.

I am nearly doubling my glass area this year, and make a specialty of Bedding plants and blooming plants for **Christmas** and **Easter**. Take Madison St. car in Chicago to Gale Ave., River Forest (opposite Concordia Cemetery).

ERNEST OECHSLIN, - River Forest, Ill.

THREE CHICAGO PLANT GROWING ESTABLISHMENTS.

The growing of pot plants for the wholesale trade, in Chicago, has developed in the last ten years. Previous to that time most stock had to be shipped in and there was not nearly the demand for pot plants that exists now. Supply has created the demand and the first to pave the way for



ERNEST OECHSLIN

this now very important branch of the trade was Frank Oechslin. Born in Schaffhausen, Switzerland, 45 years ago, and coming to this country when only 13, he seemed to have a natural aptitude for plant culture which was directed and developed by working with well-known eastern plantsmen. But Chicago called him with her greater opportunities and after being employed eight years by John F. Kidwell, he started in business by renting the greenhouses on Madison street known as the Garfield Park Greenhouses. Ten years ago he bought the first lots and built the first house of his present large plant, at 4911 Quincy street, which is now one of the show places of the city.

Ernest Oechslin, three years younger than his brother, has a very attractive range at 180 Madison street, River Forest. Here all the plants most favored for pot culture are grown. Cyclamen are much in evidence during their season and the best strains are grown. Poinsettias, azaleas, roses, rhododendrons and all other winter-blooming stock are grown as well as Boston and Whitmanii ferns. Mr. Oechslin is building three new houses this year. Visitors are always welcome at their place which is reached by surface cars, and is only nine miles from the center of the city.

Poehlmann Bros. Co. entered the field as plant growers only a year ago but now have nearly 100,000 sq. ft. of glass devoted to all kinds of blooms and decorative plants for the wholesale market. Poehlmann Bros. are well-known for their thoroughness, and their reputation for growing cut flowers of the highest quality will soon be equalled by that of their ability to



FRANK OECHSLIN

produce the highest grade of pot plants. Poehlmann Bros. will have a large exhibit of plants at the convention and the manager of their plant department will be there to answer questions.

Editor HORTICULTURE:

Gentlemen:—Please withdraw my entire advertisement as I am all sold out. Very truly yours,

FRANK P. PUTNAM.

Lowell, Mass.

ACACIAS

Twenty-Five Varieties

A rare opportunity to form a collection at reasonable cost.

Write for Prices

THOMAS ROLAND

Nahant, Mass.

PEONIES

Fifty named Peonies for $2.50. A chance to obtain a fine collection at half price, comprising such varieties as Festiva Maxima, Felix Crousse, Delachei, Lady L. Bramwell, Couronne d'Or, Produtea Tricolor, Louis Van Houtte, Rubra Superba and various other fine sorts all labeled true to name. With any order for $5.00 or my selection embracing the above I will add one plant of Baroness Schroeder, free, absolutely true to name. Send for catalogue.

W. L. GUMM

PEONY SPECIALIST

REMINGTON, IND.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4 inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3 inch pots, 85 cts. per doz.; $6.00 per 100. 4 inch pots, $1.50 per doz.; $10.00 per 100. 7 inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3 inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3 inch pots, 85 cts. per doz.; $6.00 per 100. 4 inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouilliere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites. 3 inch pots, 85 cts per doz., $6.00 per 100. 4 inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

Our Staff of Salesmen will be in Attendance at the Convention and will be pleased to show you Samples of our many Specialties of which we will have a Complete Line on Exhibition

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

TWO RARE LIL

Hardy, Beautiful, Fragrant



LILIUM MYRIOPHYLLUM

LILIUM MYRIOPHYLLUM. Mr. E. H. Wilson, the famous plant collector, collected for us the bulbs now offered, in North-western China. He considers this the finest of all lilies. It is absolutely hardy, and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink and with a beautiful shade of canary yellow at the centre, and extending part way up the trumpet, It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy oppressive odor of most lilies. Blooms out-of-doors early in July. Awarded the Gold Medal at the S. A. F. & O. H. International Flower Show, New York, 1913, as the **Finest New Plant** on exhibition; Gold Medal by the Massachusetts Horticultural Society, and a first-class certificate by the Royal International Exhibition, London, 1912. Bulbs, ready in October, each, $1.50; dozen, $15.00.

R. & J. FAR

Nurserymen and Seedsmen

BOSTO

ES FROM CHINA

The Finest Novelties Extant



LILIUM SARGENTIAE

LILIUM SARGENTIAE. This noble variety was also collected by Mr. Wilson. This is one of the strongest growing lilies—frequently attaining a height of six to eight feet. The flowers vary in number from five to ten on a stalk, and in size and shape resembling Lilium Harrisii, greenish white, shaded purple on the outside, and of the purest white within, with a tint of citron in the centre. The flowers have a pleasing fragrance. This lily will undoubtedly be largely used for outdoor planting as well as for forcing. Many consider it the finest of all tubular-flowered lilies. It flowers somewhat later than Lilium myriophyllum and being of larger growth, has a distinct place. Awarded a Silver Medal by the Massachusetts Horticultural Society, 1912, and a Gold Medal August, 1913. Bulbs, ready in October; each $1.50; dozen, $15.00

UHAR & CO.

, MASS. 6 and 7 South Market Street

VISIT
POEHLMANN BROS. CO'S
GREENHOUSES
THE LARGEST AND MOST UP-TO-DATE GREENHOUSE ESTABLISHMENT IN AMERICA



The above cut shows Plant A, and a part of Plant C. Plant B is one-half mile north. This cut gives but a faint idea of what is to be seen in the way of Modern Construction, Equipment, and Modern Methods of Culture

OUR PLANT DEPARTMENT

is about one year old and consists of 100,000 sq. ft. of glass, which will be doubled the coming season. This is devoted to **POT PLANTS,** such as **Palms, Ferns, Pandanus, Araucarias, Dracaenas,** and other **Decorative** stock as well as all the **Blooming Plants for Christmas and Easter.**

WE MAKE SPECIALTY OF GRAFTED ROSE STOCK

Using nothing but the best **English Manetti Stock.** Have a fine lot of these as well as own root Roses, Chrysanthemums and other **Stock for growing on** ready for **immediate delivery. Young Plants and Rooted Cuttings** of **Carnations, Roses** and **Mums** will continue to be a feature here and will be grown by the **Million** next year in all the **Standard Commercial Varieties.**

CUT FLOWERS

Of **Beauties, Tea Roses, Orchids, Sweet Peas, Valley, Lilies** and in fact everything in season and in large quantities will be always in stock.

FLORISTS SUPPLIES

Have also been added to our stock and we furnish **everything** the market affords.

We'll have a **display** at the **CONVENTION** in charge of our Mr. Anderson and will be glad to meet all old and new friends.

Take Chicago, Milwaukee & St. P. Ry. from Union Depot, Chicago, 14 miles N. W. to Morton Grove, Ill.

CALL AT OUR CITY STORE

POEHLMANN BROS. CO.

72 and 74 E. Randolph Street - - - CHICAGO, ILL.

NEW AND INTERESTING AT CRAIG'S.

"Meritorious new plants" has long been the slogan at this Philadelphia establishment, and those who know the keen judgment of Robert Craig and his two able sons, William and Robert, Jr., have come to depend more and more on their discernment of what is really meritorious in the plant world.

There is no such thing as standing still in their special line. What was good ten years or even five years ago may be superseded today by something better, and it is the ability to see the good points of a new thing first that spells success. Robert Craig has this faculty in an eminent degree and it is seldom that when he has backed a new thing with his judgment the floriculture world has been disappointed. So if there be anything new or interesting at Craig's the readers of HORTICULTURE are entitled to hear about it and your dollar-a-word correspondent dragged himself away from more lucrative pursuits and spent the day at Craig's—so that HORTICULTURE might make good to its dollar-a-year subscribers.

But we will not make a long story. We will boil it down to a few pointed paragraphs for the busy reader.

Néphrolepis robusta. A splendid new one. Remarkable for sturdy upright habit. The frond resembles the old Boston but is more wavy and much more elegant in every way. Stands up fine in the center and is equally good in either large or small sizes. Mr. Craig says this never reverts, and is a very rapid grower. It won the silver medal at the International Flower Show last April over all competitors.

Nephrolepis tuberosa plumosa. A plumed variety of the old Japanese tuberosa. Very dark green dwarf and compact in growth, beautifully waved on the outer edges of the fronds. A very distinct and charming fern.

Nephrolepis Smithii. Has all the good points of Amerpohlii with none of the bad ones of that lovely variety —which it is bound to supersede as it is a better grower and does not decay in the center. Very symmetrical and especially fine in medium-size ferns—say four or six-inch pots. But a gem all the way through.

Of course the other favorite forms of Nephrolepis such as todeaoides, Giatrasi, Schoelzeli, elegantissima, Harhisii, Scottii, etc., are much in evidence —many houses being devoted to their culture; but these have been so often commented on that everybody is familiar with their good points.

Adiantum hybridum. This is not a new one but the persistent Robert still claims after all these years and controversies that it still has points of merit over the Croweanum and backs this up by growing large quantities of it every year.

Adiantum Moordrecht. This is the new Farleyense—the one that can be reproduced from seed. HORTICULTURE devoted considerable space to a full description of it last year. Mr. Craig has tried it for a year, and thinks very well of it. They are growing a large stock, the bulk of which is at Norwood.

Ficus Craigi. An improvement on elastica, being shorter jointed and having a pronounced ivory white midrib. The advantage of the short joint comes in the greater number of tiers to a given height—therefore a more imposing and beautiful plant. Has the call over the old form whenever a buyer sees it. We think this is a winner, and while it may not prove a mortgage lifter like the pandurata which Craig introduced, it is a good thing just the same. Mr. Craig says pandurata is still selling well after all these years, and they are devoting many houses to it.

New French Hydrangeas. Added experience deepens the impression that we have in these hybrids of that French wonder-worker, Lemoine, a valuable addition to our list of February, March and Easter-flowering plants. Mme. Mouillere has proven especially valuable as an early-flowering variety and is classed now as the best white. Some of the varieties seen in the frames in five and six-inch pots showed as many as fifteen to eighteen heads. There are seven or eight other good sorts in pink, rose and white. The good old standby Otaksa is of course still grown here in large quantity.

Small Leaved English Ivy. Not a novelty but an item seldom seen and worthy of mention. Graceful and desirable for cemetery work and much preferred for baskets and window boxes.

New Crotons. Craig's is certainly the home of croton, in this country. Bewildering variety and perfect condition. All sizes from twenty-cent babies to twenty-dollar specimens. These are grown in the pure air of Norwood where they get color that is color. The Philadelphia end contents itself with a house of representative samples to sell from.

Chrysanthemums. Of course these are used here only as a catch crop but it is interesting to know the varieties which in the opinion of Mr. Craig are considered the most up-to-date and remunerative commercially. Among them we noted Ramapo, Wm. Turner, Mrs. Brock, December Gem, Thanksgiving Queen, Chas. Razer, etc. Among the Pompons, Anemones and Singles: Garza, Quinola and Mrs. Beu are prominent.

The cyclamen, palm, dracæna, poinsettia, genista—and all the other staples, it is unnecessary to mention here except to say that stocks are up to their usual standard. We may state in passing, however, that in dracænas, instead of the usual one or two sorts, the florist can here get his pick of a dozen.

AN UNIQUE EXHIBIT.



Look for this unique exhibit at the Minneapolis exhibition. It represents a mammoth reel wound with Revero Hose. It is made of quartered oak and in the hub is a miniature garden scene with gardener spraying a flower bed; real water coming out of the hose. There is also a garage, automobile, and trees and shrubbery, making a very unique and attractive exhibit. A glass front protects the garden scene. A representative of the Revere Rubber Company will be present to tell you the rest of the story.

Next Week

THOUSANDS of our readers will be interested to know what is going on in Minneapolis. The full story of the Convention Proceedings up to Thursday noon will appear in Horticulture. It will be read from cover to cover. If your advertisement is there it will get its share of attention. If you have not done so already send advertising copy by Tuesday 19th and it will be a winner.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD. An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
BODDINGTON'S CHRISTMAS WHITE. A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
ANGELINO. Self pink; new variety	.50	1.50	2.75	4.50
CANARY. Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
FLAMINGO. Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
CHRISTMAS METEOR. Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
CHRISTMAS STELLA MORSE. Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
FLORENCE DENZER. Pure white	.25	.75	1.25	2.00
LE MARQUIS. This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
MISS HELEN M. GOULD. White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
MISS JOSEY REILLY. Lilac very large flowers	.25	.75	1.25	2.00

	Oz.	¼ lb.	½ lb.	Lb.
MRS. A. FARENWALD. Extremely large; dark pink. Very early	$0.75			
MRS. E. WILD. Carmine or dark pink	.25	.75	1.25	2.00
MRS. ALEX. WALLACE. Lavender; very scarce	.25	.75	1.25	2.00
MRS. HANNAN. Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
MRS. JAMES WHEELER. Salmon with orange. Best of its color	.50	1.50	2.75	4.50
MRS. WM. SIM. Salmon pink	.25	.75	1.25	2.00
MRS. GEO. LEWIS. Large, pure white, wavy flower	.25	.75	1.25	2.00
MRS. W. W. SMALLEY. Satiny pink	.25	.75	1.25	2.00
MRS. F. J. DOLANSKY. Daylight pink	.25	.75	1.25	2.00
MRS. CHAS. H. TOTTY. Sky blue; late	.25	.75	1.25	2.00
MRS. ZVOLANEK. Blue, variegated; good for variety	.50	1.50	2.75	5.00
ORANGE BIRD. Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
PINK BEAUTY. Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
WALLACEA. Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
WATCHUNG. Pure white	.25	.75	1.25	2.00
WINTER CHEER. Wavy, large white flower	.50	1.50	2.75	4.50
WM. J. STEWART. Blue self	.35	1.00	1.75	3.00
ZVOLANEK'S PINK. Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

COLD STORAGE GIGANTEUMS

7-9 in., 8-9 in., 9-10 in.

Write for Prices

YOKOHAMA NURSERY COMPANY

New York, N. Y., London, England, Yokohama, Japan

Mention HORTICULTURE when you write

VINCA MINOR AUREA

HARDY GOLDEN MYRTLE

3-inch Pot Plants

$8.00 Per 100

Field-Grown Clumps

$15.00 Per 100

25 at 100 rates

Lythrum Roseum, Perry's Variety, a grand border plant but specially adapted for wet places, margins of ponds, lakes, etc.,

$2 00 PER DOZEN

Don't fail to inspect these novelties at the Exhibition Grounds, Minneapolis, during Convention Meeting.

W. TRICKER

ARLINGTON, - - N. J.

LILIUM HARRISII

For Immediate Delivery

We offer a selected stock of the original true Harrisii for early forcing. The stock was grown from the original true type, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. The crop this season is much shorter than usual, but we are still in position to supply a nice lot of selected stock

6 to 7 inch bulbs, 350 to the case, $5.50 per 100; $45.00 per 1000
7 to 9 inch bulbs, 200 to the case, $9.00 per 100; $82.50 per 1000

Full case lots at thousand rates.

NOW READY

PAPER WHITE NARCISSUS: 13 c-m bulbs, $1.25 per 100, $9.00 per 1000; 14 c-m bulbs, $1.50 per 100, $11.00 per 1000

WHITE ROMAN HYACINTHS: Extra quality bulbs, 11-15 c-m, 2000 to the case, $3.00 per 100, $28.00 per 1000.

LILIUM GIGANTEUM, Cold Storage: 7-9 inch, case of 300 bulbs, $19.50 per case.

FREESIAS, Purity: $2.00 per 100, $15.00 per 1000.

FREESIAS, French-grown: Mammoth bulbs, $1.50 per 100, $10.00 per 1000.

CALLAS: Extra size bulbs, 1¼ to 2 in. in diameter, $10.00 per 100; mammoth bulbs, 2 to 2½ in. in diameter, $12.00 per 100.

FINE FERNS FOR SUMMER DECORATION

We have a fine stock of the following varieties of Nephrolepis:

ELEGANTISSIMA: 6-in pots, 50c. each; 8-in. pots, $1.00 each

HARRISII form of Bostoniensis the best of all the plain-leaved type; 8 in. pots, $1.00 each; very large specimens in 10 in pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

White Killarney, Pink Killarney, Richmond, Lady Hillingdon and Killarney Queen.

We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON NEW YORK

BALTIMORE NURSERIES

California Privet

Any quantity, size and age No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv. in HORTICULTURE, May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinnerii, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL, Summit, N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.
369 RIVER ST., CHICAGO.

CHRISTMAS PEPPERS

New Cluster Peppers, Branching New Cluster Peppers and Solanum Melvini, strong plants, 2¼-in. pots, $3.00 per 100; $25.00 per 1000.

Strong plants with Fruit from 4½ in pots, $10.00 per 100.

PRIMROSES—OBCONICA AND CHINESE

The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

FRANK OECHSLIN
4911 Quincy St., Chicago, Ill.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Dunkirk, N. Y.—The Dunkirk Seed Company are planning to build an addition 30 x 120 to their plant.

Syracuse, N. Y.—A new seed store has been opened at 304-306 West Water street by the L. L. Patterson Company.

Lem Bowen, of the D. M. Ferry Co., at Detroit, Mich., was a recent visitor to the "House of Daehnfeldt," at Odense, Denmark.

Springfield, Mo.—The Ozark Seed Company, organized three years ago, has been purchased by R. R. Ricketts, president of the Springfield Seed Company.

Paris, Ky.—E. F. Spears & Son, grass seed dealers, whose warehouse was burned down several months ago, announce that they will erect a fireproof building, to cost $50,000.

The trade inspection trip to Henry F. Michell Company's nursery at Andalusia, Pa., of which mention is made under the Philadelphia news column should interest every gardener and florist, for many up-to-date novelties will be seen here at their best, at this time. Particularly interesting will be the field of the new geranium "Helen Michell," which notwithstanding the trying weather conditions is now a glorious sight; a wonderful collection of new phloxes and other perennials, newer cannas and dahlias, in fact everything that can be had in bloom at this time. Free transportation to Andalusia and return from Philadelphia is provided for by the House of Michell.

INCORPORATED.

Wakefield, Mass.—Chas. C. Ball, florist, capital stock, $25,000. Incorporators, John R. Carey, Charles C. Ball and Carrie L. Ball.

New York, N. Y.—Thomas F. Galvin, Inc., Florist, capital stock, $30,000. Incorporators, James F. Barber, G. Everett Hunt and Edward E. Reardon.

Schenectady, N. Y.—Schenectady Seed Company, farm and garden seeds, capital stock, $10,000. Incorporators, Albert N. Ladu, Frederick B. Orlop, C. Edith Ladu.

H. Emunds of Belleville, Mo., says he will name his new yellow canna Queen Helen. It is a sport from King Humbert and has all of the King's habits.

NEW YORK STATE FAIR, SEPTEMBER 8TH TO 13TH, 1913.

C. H. Vick, of Rochester, N. Y., Superintendent of the Floral Department, is a very busy man these days, making preparations for the coming show which he intends shall eclipse all previous ones. Floral Hall will be made a veritable beauty spot as part of the building will be laid out as a flower garden with turfed lawns, flower beds, walks and trellises covered with vines, etc.

Lord & Burnham will erect a conservatory 40 x 60 feet complete with boiler and pipes and the benches will be filled with a splendid collection of plants. This of itself will prove a great drawing card and will doubtless be a splendid advertisement for the firm. A fine band will be in attendance each day, and it goes without saying that Floral Hall will be the Mecca for all visitors.

The premium list this year calls for nearly $3,000 for plants, designs and cut flowers, which should insure a large entry list. Those having specialities will find a splendid field for advertising them as last year there were over two hundred thousand paid admissions to the Fair. Mr. Vick's ability as an organizer is well and favorably known. This year he has chosen Henry Youell, Financial Secretary of the American Gladiolus Society, as his assistant. Exhibitors may feel assured that every facility and attention will be given them.

Premium lists may be had free by addressing A. E. Brown, Secretary of the New York State Fair, Syracuse, N. Y. Entries close August 30th.

As it is difficult to obtain accommodation at the hotels during Fair week, Mr. Youell will gladly recommend respectable and reasonable places to those who will write him at his address, No. 538 Cedar street, Syracuse, N. Y.

SWEET PEAS

SPENCER VARIETIES

GROWN IN

New Zealand, Australia

Crop '13 just arrived. Write for prices.

LOECHNER & CO.

11 Warren St., New York, N.Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.



Mignonette

Boddington's Majesty

THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.

Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.

Arthur T. Boddington

SEEDSMAN

342 West 14th St., New York

MICHELL AT MINNEAPOLIS

Don't Overlook to See Our Big Display of



GERANIUM "HELEN MICHELL"

THE NEW SCARLET BEDDING GERANIUM

"HELEN MICHELL"

in the outdoor exhibition and our general display in the hall.

Meet Mr. Fred Michell, Jr. and our other representatives at the Convention

Wholesale Price List and Catalog of Bulbs Ready Now

This new geranium surpasses all other scarlet varieties and will constitute the best commercial novelty for 1914. To be disseminated January 1914.
(Orders will be filled in rotation as received)

Prices: 2¼ in. Pots, $2.50 dozen; $15.00 per 100; $125.00 per 1000

MICHELL'S SEED HOUSE

518 MARKET STREET - - - PHILADELPHIA, PA.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

BULBS and HARDY PLANTS
Contracts made for Seed Growing
Send for price list
E. S. MILLER, WADING RIVER, N. Y.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS
Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

In writing to Advertisers kindly mention Horticulture

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice

On and after September 1, 1913 our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

BULBS ARRIVING

LILIUM HARRISII (True Bermuda Easter Lily)

9-11 in., per dozen, $3.75; per 100, $23.00
7- 9 in., per dozen, 1.35; per 100, 8.75

Our stock comes direct from one of the best growers in Bermuda, to whom we pay special prices to secure extra good bulbs. Our stock this year is the best in appearance we have seen in a long time.

Amaryllis Johnsoni .....$2.50 dozen
Amaryllis Vittata Hybrids... 3.50 dozen

Oxalis, Bermuda Buttercup, per 100, $1.00; per 1000, $8.50.

Pansy Seed, Vick's Giant Superb, ⅛ oz., 75c.; ¼ oz,, $1.35; 1 oz., $5.00.

WRITE FOR FALL CATALOG.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO.

COLD STORAGE

LILIUM GIGANTEUM

and

LILY OF THE VALLEY

From our own Cold Storage Plant

BOSTON

FANEUIL HALL SQUARE

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all the leading varieties of Giant Trimardeau.

Write for Prices.

FREESIA

	100	1000
REFRACTA ALBA:		
⅜ to ½ in. diameter	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
PURITY, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

53 Barclay St., NEW YORK

T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

St. Louis, Mo.—Otto Sander, Kings Highway.

Brattleboro, Vt.—Carl S. Hopkins, Main street.

Springfield, Mass.—Philip Sisitzky, Pearl street.

Gary, Ind.—John Owens, Gary Theatre Building.

Stockton, Cal.—Valley Floral Store, Heald Building.

STEAMER DEPARTURES

Allan.

Tunisian, Montreal-Liverp'l..Aug. 19
Parisian, Boston-Glasgow....Aug. 22
Pomeranian, Mont'l London..Aug. 24

American.

St. Paul, N. Y.-Southampton.Aug. 22
St. Louis, N. Y.-S'hampton...Aug. 29

Atlantic Transport.

Minnewaska, N. Y.-London...Aug. 23
Minnetonka, N. Y.-London...Aug. 30

Cunard.

Laconia, Boston-Liverpool....Aug. 19
Carpathia, N. Y.-Mediter'n..Aug. 19
Caronia, N. Y.-Liverpool.....Aug. 23
Alaunia, Montreal-S'hampton.Aug. 23

French Line.

France, N. Y.-Havre.....Aug. 20
Virginie, N. Y.-Havre .....Aug. 30
La Savoie, N. Y. Havre.....Aug. 27
Chicago, N. Y.-Havre.....Aug. 30

Hamburg-American.

America, N. Y.-Hamburg.....Aug. 21
Pretoria, N. Y.-Hamburg ...Aug. 23
Pres. Grant, N. Y. Hamburg..Aug. 27
Imperator, N. Y.-Hamburg..Aug. 30

Holland-America.

Potsdam, N. Y.-Rotterdam...Aug. 19
New Amst'd'm, N. Y. R't'd'm.Aug. 26

Leyland.

Winifredian, Boston-Liverp'l.Aug. 23
Devonian, Boston-Liverpool..Aug. 30

North German Lloyd.

Fr. der Grosse, N. Y. Bremen.Aug 19
K. Wilhelm II, N. Y. Brem'n.Aug. 26
Bremen, N. Y. Bremen .....Aug. 28
Pr. Fr. Wilhelm, N. Y.-B'm'n.Aug. 30

Red Star.

Lapland, N. Y.-Antwerp.....Aug. 23
Kroonland, N. Y.-Antwerp...Aug. 30

White Star.

Celtic, N. Y. Liverpool ..Aug. 21
Olympic, N. Y.-Southampton.Aug. 23
Teutonic, Montreal-Liverpool.Aug. 23
Arabic, Boston-Liverpool.....Aug. 26
Cedric, N. Y.-Liverpool.....Aug. 28
Majestic, N. Y.-Southampton.Aug. 30

Baltimore, Md.—Pierce & Co., 1137 W. Baltimore street.

Springfield, Ohio—C. Pearl Bethard, West Mulberry street.

Columbus, Ohio—Fulton Market Flower Shop, 186 South High street.

Providence, R. I.—T. H. McAndrew has opened a retail store at the corner of Broad and Claverick streets, a well situated location. Mr. McAndrew was formerly foreman of the Smith Floral Company.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis. CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

NEWS NOTES.

El Paso, Texas—The Texas Floral Company has removed from 103 Texas street to 617 East Rio Grande.

New York, N. Y.—The florists' greens supply concerns of N. Lecakes and George Cotsonas, are about to merge and incorporate.

Detroit, Mich.—Bad news reaches us from Owosso, Mich., where the Owosso Floral Co., lost all of its greenhouses during a heavy hailstorm on the evening of August 8. This section has been the sufferer of more damaging storms this season than for many years past and we trust and hope that no more of our fellow workers are visited by similar calamities.

St. Louis, Mo.—John Milhaupt, 70 years, old, a retired florist, of 3459 Washington avenue, was perhaps fatally injured and William C. Mackle, about the same age, a florist, of 4328 Arco avenue, seriously hurt on Tuesday evening, August 5, when a horse which they were driving attached to a light wagon took fright at an automobile and ran away on Manchester road near the Kirkwood-Ferguson car tracks, in Brentwood Milhaupt had a fractured left arm, dislocated right elbow and internal injuries. His advanced age retards his chances of recovery.

RICE'S
EXHIBIT AT THE S. A. F. CONVENTION
WILL BE
THE BEST YET
DON'T MISS IT
M. RICE CO.
1220 Race St., Phila., Pa.
THERE'LL BE SOMETHING TO PUZZLE ABOUT.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

A YOUNG LADY'S SUMMER OUTING.

And the Part the Florists' Telegraph Delivery Played in This Outing.

A bevy of young society girls with their chaperon boarded the large freight steamer William E. Corey at a Lake Erie port bound through Lake Erie, Detroit River, Lake St. Clair, St. Clair River, Lake Huron, St. Mary's River, through the Locks at the Soo and Lake Superior to Duluth. The chaperon of the party gave strict orders that no young men be allowed to hang around the seamer with boxes of flowers or candy as signs of a farewell. One of these unfortunate young men happened to be a Detroiter and he came and told his troubles to a florist who for a while sympathized with him, then said, as a good doctor would tell his patient: "Well, my dear boy, we can help you because the Florists' Telegraph Delivery has made deliveries before which many thought impossible. Tonight or early in the morning when this steamer passes Detroit we will run out in the marine reporters' launch and deliver the flowers you wish for your young lady." We did, and the steamer never stopped.

Later it was told that the chaperon promised never to keep young men from buying flowers for their sweethearts as a token of farewell. So please remember, when in trouble, to use The Florists' Telegraph Delivery.

PHILADELPHIA NOTES.

W. Atlee Burpee arrived home from his European trip on the 11th inst.

Edward Reid has been laid up for a week with a severe attack of the grip.

A special train has been chartered by the H. F. Michell Co. for a day's outing at their nurseries and trial grounds at Andalusia on Wednesday, the 27th inst., leaving Broad street station, at 11 A. M. All readers of HORTICULTURE are cordially invited. Write for identification tag, which is all that is necessary in lieu of a ticket.

C. E. Meehan figures out that there are some twenty-five prominent Philadelphia florists at Ocean City, N. J., this summer—which speaks volumes for that popular summer resort, notwithstanding that there our old acquaintance, Mr. Pecksniff, objects to bathing on Sunday, and also to the abbreviated costume of Father Neptune—with his trident. Such is life!

The special meeting of the Florists' Club to hear the report of the committee on hall was held on the 11th inst. The committee thought Sangerfest Hall would do for the International Show. Alterations and rent, etc., $27,000 — they concluded would not scare the S. A. F. if they were bent on having the next big event in Philadelphia. So it is now up to the S. A. F. committee to make the next move.

W. E. McKissick has resigned his position as manager of the Washington store of the Pennock-Meehan Co., and has accepted a similar position with the Leo Niessen Co., who are to open a branch in Baltimore, Md. We understand that the Pennock-Meehan Company will make no new appointment for manager for the present, but will have a representative of the firm and the present help run things until the busy season sets in.



An esteemed subscriber to HORTICULTURE asks us to publicly acknowledge his heartfelt gratitude for the generous way in which the Philadelphia florists have responded to his modest request for a small contribution to the sufferers from the Balkan war. It gives us much pleasure to publish the list of contributors which is as follows:

Floracroft Gardens	$10.00
Joseph Heacock	10.00
J. W. Young	1.00
H. F. Michell Co.	5.00
Francois Suplot	10.00
S. S. Pennock Meehan Co.	5.00
Philadelphia Cut Flower Co.	10.00
Berger Bros.	5.00
Samuel E. Lilley	5.00
Alfred M. Campbell	1.00
Edward Reid	5.00
George Uber	1.00
W. K. Harris	5.00
Robert Craig Co.	1.00
Eugene Bernheimer	1.00
The Leo Niessen Co.	10.00
W. B. Lake	2.00
M. Rice & Co.	5.00
Standard Refrigerator Co.	25.00
	$117.00
Miscellaneous collections	122.00
Total	$239.00

Frank Polites, the subscriber in question, is a native of Greece and conducts two stores in this city, one at 13th and the other at 15th and Chestnut street. He is a highly esteemed citizen and a credit to his adopted country. His younger brother who conducted the store for him at the 13th street place, enlisted for the war and has gone through that harrowing experience with the breath still in his body and from his last letter to his brother, just received, we learn that he is truly thankful for that. We expect to see him back in our midst by Christmas.

In the severe storm which struck this vicinity Sunday we hear of no great greenhouse destruction, which is remarkable, considering there was a sixty-mile gale and many buildings unroofed or blown down. James Verner, Garrettford, had a stack blown down; George Burton, Chestnut Hill, stack struck by lightning—only one-third left; Geo. Campbell, Flourtown, a small dwelling damaged; Gus Doemling, Lansdowne, a dozen boxes of glass will repair the damage there.

The Leo Niessen Company confine their entire efforts to the wholesaling of cut flowers, and their annual volume of business is very large, if not the largest of any wholesale house in the East. The building they occupy was erected by themselves, and every provision was made to make it a most up-to-date establishment in every respect. The first floor, which is the salesroom, is well divided in various departments, there is no crowding, an abundance of daylight, in fact every advantage is found here to handle cut flowers to the greatest satisfaction for both the retailer and grower. The success of this firm is well known to all who are familiar with conditions in Philadelphia. It has been that conservative, steady advance, the result of careful judgment and business methods that command the respect and support of the trade.

Visitors: L. C. Bobbink, of Bobbink & Atkins, Rutherford, N. J.; H. L. Holmes, Holmes Seed Co., Harrisburg, Pa.; Arthur Blome, of Paul Blome & Co., Chicago, Ill.; Mr. Ackerman, secretary of The Zeiger Co., Pittsburgh, Pa.; Mr. and Mrs. Ben Beu, Chicago, Ill.; Joseph Cannon, Scranton, Pa.

Calling at H. Bayersdorfer & Co.'s a few days ago we were impressed with the remarkable number of new and really beautiful flower baskets and vases there displayed. There are willow basket vases glass-lined which will prove very serviceable in floral decorative work. Some heavy garlands of preserved bay leaves flashing with bronze and golden poppy heads, humming birds and other accessories for showy decorations were very effective. All these and many other useful things will be shown at Minneapolis. Mr. Bayersdorfer says that all those who want French immortelles this year should buy early or they run the chance of getting left as the immortelles all rotted in the field and there is the shortest crop on record.



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St.

553 Lake St., Kendallville, Ind.

CHICAGO NOTES.

Asters and gladiolus are getting more plentiful and of better quality.

The Chicago Carnation Co. are enlarging and improving their office, also adding to their store facilities.

The recent rains will be a great help to the field-grown carnations that are still out, putting the soil in fine condition for transplanting.

The heavy dashing rains of Thursday night and Sunday damaged the outdoor flowers for the time being, but will be a great benefit in the long run.

E. Toepel, secretary of the Chicago Florists' Club and head bookkeeper for Poehlmann Bros. Co at Morton Grove, expects to go to Washington about September 1st to engage in farming. He will be missed by the club, but his many friends wish him success in his new enterprise.

The handsomest all-green window in the down-town district this summer is to be found in Geo. Perdikas' store on S. Wabash avenue. A mound of green occupies the center and large palms and ferns fill the corners in irregular arrangement. As a filler an arrangement of loose gray stones gives relief in color and a cool, out-of-door effect. The window attracted much attention and did not cost much either of time or money.

Chicago visitors: J. C. Steinhauser, Pittsburgh, Kans.; H. R. Marquardt, of E. Walke Co., Milwaukee, Wis.; J. Muller, representing Julius Roehrs Co., Rutherford, N. J.; J. W. Davis, Davenport, Iowa; Frank Farney, representing M. Rice Co., Philadelphia, Pa.; T. J. Kirschner, Cleveland, O.; Mr. and Mrs. R. C. Kerr, Houston, Tex.; Mr. Snyder of the El Paso Carnation Co., El Paso, Ill.

CINCINNATI PERSONALS.

J. T. Conger, the Hartwell florist, has returned from Wichita, Kan.

Mr. and Mrs. Ed. Fries of Ft. Thomas have returned from their trip through the west.

The only local florists who have signified their intention of attending the convention are C. E. Critchell and J. A. Peterson accompanied by their respective wives. Mr. Peterson will also have his daughter in the party. Chas. Baum, Knoxville, Tenn., will join the party in this city.

Visitors: Martin Reukauf, representing H. Bayersdorfer & Co., Philadelphia; Sam Seligman, New York, and E. Hyatt of Stuart & Haugh, Anderson, Ind.

NEWS NOTES.

Yonkers, N. Y.—The palm house at "Greystone," the Untermyer estate, was unroofed in the severe storm last Sunday afternoon and about one hundred trees were uprooted.

Northampton, Mass.—Last Friday, Jonathan Edwards' grand old elm tumbled to the earth from which it sprang nearly 200 years ago; dead from old age. Planted in front of his home by the noted Presbyterian divine in about 1726—the exact date is in dispute—the giant landmark proudly withstood the blasts that swept down the Connecticut valley while generation after generation passed away, and when it finally dropped, there was scarcely a breath of air stirring. Nor was its going unostentatious, for it tore down trolley, telegraph and telephone wires and sounded the fire alarm. On the pavement the trunk was broken into bits of souvenir size.

Twelve years ago, when it was feared that the elm would fall, the larger branches were cut off, and the hollow of the tree was filled with 25 barrels of cement in order to preserve as long as possible one of the most historic trees in the State.

A cablegram received from W. A. Manda, dated at Ghent, Belgium, states that he has won over twenty prizes at the big exhibition there.

PENNOCK BROS.

Members Florists Telegraph Delivery Association

Retail Orders Filled and Promptly Delivered

1514 CHESTNUT STREET

Philadelphia, Pa.

BUYER AS WELL AS SELLER

Much is heard of how to sell goods—the buyer seems to be taken for granted. On the contrary, we think the buyer entitled to equal consideration. Well bought is half sold. We aim to be the faithful servant of both buyer and seller. Equal justice to both is our motto. Send your orders or consignments to us and judge.

BERGER BROS.,

Wholesale Florists

140-142 North 13th St. PHILADELPHIA

ONCE MORE
THE BIGGEST AND BEST

OUR extensive display of **Floral Art Goods, Baskets, Vases, Preserved Flowers and Foliage,** and all up-to-date accessories for Florists' decorative work, at Minneapolis, will be the finest ever brought together; rich in novelties and useful introductions of this season from abroad.

VISIT US THERE

and enjoy this rare opportunity to inspect the most complete collection of Florists' Supplies.

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch St., - - - - - - Philadelphia, Pa.

Personal

A. T. Boddington is spending his vacation in New Hampshire.

Thomas Proctor, Lenox, Mass., sailed for a visit to his old home in Scotland, on the Caledonia, July 28.

Harry Bayersdorfer and family are sojourning at Atlantic City since his return from Europe, he coming up daily to business in Philadelphia.

We are informed that Max Richter, formerly at Roehrs' in Rutherford, N. J., has leased the old John H. Taylor rose houses at Bayside, Long Island.

A. J. Loveless, superintendent of the Griswold estate at Lenox, Mass., has gone to St. John, N. B., and Newfoundland, for a two weeks' vacation.

Peter G. Brough, recently at Roslyn, N. Y., has accepted the position of assistant gardener under John Joiner, on the Bayard Cutting estate, Oakdale, Long Island, N. Y.

D. J. Coughlin is to be succeeded as gardener for Mr. E. Rollins Morse, Newport, R. I., by Dennis Foley, who has been Mr. Coughlin's assistant for several years, the change to take place Sept. 1st.

W. Trumpore, who has been associated with J. H. Small & Sons, New York, as flower buyer, ever since the establishment was opened years ago, has resigned on account of impaired health and will open a small flower store for himself in Stapleton, Staten Island. Messrs. Small part with him with reluctance and much regret is expressed in the wholesale marts where Mr. Trumpore has many friends and will be greatly missed.

Oliver Lines, orchid grower at Wyndhurst Gardens, Lenox, Mass., for the past five years has engaged with Mr. Arthur N. Cooley of Pittsfield, Mass., to take charge of the orchids at that place, where quite an extensive collection is being worked up.

Those who know the success of Prof. E. A. White will agree that Cornell University is fortunate in securing his services as the head of its new floriculture department. He is a native of West Townsend, a graduate of the Massachusetts Agricultural College, where he later became assistant horticulturist, was engaged in business in Arlington at the head of a firm of florists and afterwards took up college work again and held professorships in Texas, Connecticut and at Amherst.—*Boston Globe.*

New York visitor: Sydney Hoffman, Boston.

Boston visitors: M. H. Walsh, Woods Hole, Mass.; H. Huebner, Groton; Winfried Roelker, New York; A. E. Thatcher, Bar Harbor, Me.; Mrs. M. B. Hancock, Chicago, Ill.

St. Louis visitors: R. Karlstrom, representing W. A. Manda, South Orange, N. J.; Mr. LaVine, representing Lion & Co., New York; Frank Farney, representing M. Rice Co., Philadelphia; F. McCabe, representing W. L. Randall Co., Chicago, and T. Matchen of P. Reinberg's, Chicago.

Obituary

C. Leslie Reynolds.

While pursuing some boys who had been throwing stones at the hothouses in the National Botanical Gardens on Wednesday last, C. Leslie Reynolds, superintendent of the gardens, dropped dead from heart failure.

He was born in Montgomery County, Maryland, fifty-five years ago, but at an early age he went to Washington, later obtaining an appointment as page at the National Capitol. When fifteen years of age, he secured a transfer to the Botanical Gardens as a messenger boy. He soon became an apprentice and continued up the ladder until he became assistant superintendent and during the illness of the late William R. Smith he acted as superintendent, and upon the death of the latter he was the logical man for the position. On July 14, 1912, he was officially appointed superintendent of the gardens by the Library Committee of Congress, since which time he has done much to beautify the gardens and he has just gotten them back into shape following the ravages of the recent storm. During his forty years residence in the National Capital and service with the Government, Mr. Reynolds has made a host of friends and but two days before his death he was one of the guests of honor at the crab feast tendered by Edward S. Schmid to the Florists' Club of Washington.

WE OFFER MANY OPPORTUNITIES TO CUT FLOWER BUYERS

Staple articles in the Cut Flower line, you will always find with us in very large quantity. We also have many Novelties, some stock that we handle exclusively, and others which we handle in so large a quantity, that we are positively headquarters for their supply. Let us mention some of them:

THIS COMING SEASON

We will have the cut of **100,000 BEAUTY PLANTS**, and our growers know how to produce them. You know them by reputation.

Will have the cut of **8,000 PLANTS of GORGEOUS**, Peter Fisher's new Carnation. The name describes it.

Will have the exclusive sale of cut flowers of **KILLARNEY BRILLIANT**, Robert Scott & Son's wonderful new Rose.

Will have the cut of **10,000 PLANTS of FIRE FLAME**, also all the other good yellow Roses: **SUNBURST, MELODY, HILLINGDON, AARON WARD.**

Will have cut from over **100 ACRES of DAHLIAS.** The best cut flower varieties grown by experts. One sample shipment from us, will invariably make a steady buyers of Dahlias. The way we handle them, they can be shipped with safety, any reasonable distance.

We don't think that anywhere you will find such a collection of Novelties and staple goods in the cut flower line, as we offer you. In addition you have the benefit of our Service, which is the Best.

There are many reasons why you should deal with us, but nothing is so convincing as an actual trial. You have everything to gain, and nothing to lose, by placing your order with us.

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

Niessen Building **PHILADELPHIA**

EASTERN HEADQUARTERS

FOR FLORISTS' SUPPLIES

All Requisites in Green Material, Ferns, Galax, Laurel, Leucothoe, etc., Folding Boxes, Wire Work, Cycas Leaves, Baskets in great variety, Vases, Ribbons, Sheaves, etc., etc.



Bay Trees and Box Trees

ANY QUANTITY, ANY SIZE, FIRST QUALITY,

Auction Sales, Spring and Fall, of Trees, Shrubs, Evergreens, Florists' Plants and all Horticultural Material.

CUT FLOWERS

FINEST GRADE OF ALL FLOWERS AT BOSTON MARKET PRICES. SHIPPING TRADE SOLICITED

N. F. McCARTHY & CO.

112 Arch St., 31 Otis St., BOSTON.

BEAUTIES

$1.00 to $3.00 per Dozen

Our best grown Beauties are the best we ever had at this season of the year. We have an extra large supply of the short and medium grades, stems 12 to 28 inches long, at

$5.00 to $15.00 per Hundred

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI July 28			CHICAGO August 4			BUFFALO August 4			PITTSBURG July 28		
Am. Beauty, Fancy and Special	20.00	to	15.00	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Extra	8.00	to	10.00	12.00	to	15.00	12.00	to	12.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	5.00	to	8.00	6.00	to	10.00
" " Lower Grades	4.00	to	5.00	5.00	to	8.00	2.00	to	3.00	2.00	to	4.00
Killarney, Extra	4.00	to	5.00	6.00	to	8.00	4.00	to	5.00	6.00	to	8.00
" Ordinary	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Richmond, Hillington, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	5.00	6.00	to	8.00
" Ordinary	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Mary and Ward, Tait, Lamb, Extra	3.00	to	5.00	6.00	to	10.00	.....	to	.....	6.00	to	8.00
" Ordinary	2.00	to	3.00	3.00	to	4.00	.....	to	.....	3.00	to	4.00
Carnations, Fancy Grade	.....	to	.50	2.00	to	3.00	1.00	to	1.50	1.50	to	2.00
" Ordinary	.....	to	1.00	1.00	to	2.00	.50	to	1.00	.....	to	1.00
Cattleyas	.....	to	.....	.....	to	50.00	35.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	5.00	to	10.00	8.00	to	12.50	5.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	2.00	to	5.00	5.00	to	6.00	2.00	to	4.00	3.00	to	6.00
Asters	.....	to	.....	.50	to	2.00	.60	to	2.00	.75	to	3.00
Daisies	.....	to	.50	.25	to	.25	.40	to	1.00	.....	to	.....
Sweet Peas	.....	to	.....	.25	to	.75	.20	to	.50	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	.....	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings 100	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Sprei. 1100 bchs	25.00	to	25.00	35.00	to	50.00	25.00	to	35.00	40.00	to	50.00

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

The J. M. McCullough's Sons Co.

WHOLESALE COMMISSION FLORISTS

CONSIGNMENTS SOLICITED

Phone Main 581 316 Walnut St., Cincinnati.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH



RHODE ISLAND REDS

Our grower is cutting freely of these **BEAUTIES**—splendid, large, well colored birds, far superior to the local stock, all pencilled.

	doz.	100		Doz.	100
Special	$3.00	$20.00	First	$1.50	$10.00
Fancy	2.50	17.50	Second	1.00	7.50
Extra	2.00	15.00			

ASTERS: The Semple and other late varieties are now coming in, much better quality than the earlier varieties. The best, **$3.00 per 100**; plenty of good grades at **$2.00 per 100**; short stock, **$1.00 per 100.**

GLADIOLI: We are still getting in a good quantity of the best varieties of these staple summer flowers. **$3.00 per 100. America, $5.00 per 100.**

HEADQUARTERS FOR GREENS

BRONZE GALAX: $2.00 per 1000.
GREEN GALAX: $1.00 per 1000;; $7.50 per 10,000.
GREEN LEUCOTHOE: New crop, $1.00 per 100; $7.50 per 1,000.
GREEN SHEET MOSS: $0.50 per bag.
ASPARAGUS STRINGS: 50c. each.
ASPARAGUS and SPRENGERI: Bunches, 50c. each.
ADIANTUM: $1.00 per 100.
SPHAGNUM MOSS: 10 bbl. bales, nicely burlapped, each $3.75; 5 bale lots, each $3.50; 10 bale lots, each $3.25.
SMILAX, 20c. per string. **CUT HEMLOCK,** $2.50 per bundle.
HARDY DAGGER FERNS: Best quality, large fronds, $1.50 per 1000

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Our new illustrated Catalogue of Ribbons and Supplies will be ready in September. Let us have your name now so we can mail you a copy.

During August we close at 5 p. m.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

P M QUALITY

Flower Market Reports

BOSTON There is no business here this week. In town and out of town everybody is either away or wishing he were away and one might as well remain idle as to attempt either to drum up an order or a check. The quality of flowers seen in the market is very classy, but that does not suffice to sell it. The new crop of carnations have made their first appearance this week. Roses are still small, as a rule. Sweet peas have never been so handsome or so difficult to dispose of. There are plenty of lilies of fine quality. Gladioli have been accumulating, but they have almost no commercial value and the wholesalers only ask someone to make an offer. The same is largely true of asters, of which the main supply thus far consists of the unsalable runts. One wonders why anybody goes to the trouble to raise this class of asters as they have had no sale to speak of for several years back.

BUFFALO There have been some very quiet days during last week and there were also days when things were brisk. One day an over supply and the following a shortage. Business has been uneven, though we cannot complain as summer conditions still exist. There are but few good asters but some fine gladioli are had and amongst them Panama is introduced and has taken well. Some good Maryland roses are had also some White Killarney, which are taking the place of Kaiserine. Beauties have improved in quality and in sales, also lilies, both Japs and Giganteums. Lily of the valley has still been moving.

CHICAGO The market last week was exceedingly quiet. The dullness was more pronounced following as it did an unusually active demand during the month of July. There is an abundance of stock of such varieties as are seasonable in mid-summer. Gladioli are over-abundant and only a small proportion of the choicest stock finds a market. The same might be said of asters; of these but few of the larger and better sorts are in, the bulk consisting of the small, early variety which can be had at "almost any old price." Auratums are quite plentiful, but move fairly well. Longiflorum lilies of fair quality are about equal to demand. Beauties are increasing in supply and in spite of the very hot weather that has prevailed for an unusually long period, the quality is very good. In teas there is a fair supply of most of the leading sorts. Of the newer varieties we note some very fine Shawyer. This rose appears to be one that is going to make a hit. Stem, color and great keeping qualities are valuable points in its favor.

CINCINNATI Market affairs took a very decided turn for the worse during last week and the early part of this week. Hardly anything can realize its true value, and there is plenty of stock left over after the close of business each day. Asters are beginning to come in stronger. The early local cut was more or less of a failure owing to the hot, dry spell and stem-rot. Out-of-

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON August 14			ST. LOUIS August 4			PHILA. August 4		
Roses									
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Richmond, Hillingdon, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Maryland, Ward, Taft, Carmel Extra	3.00	to	6.00	5.00	to	8.00	4.00	to	6.00
" Ordinary	.50	to	2.00	3.00	to	4.00	.50	to	2.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	1.00	to	1.50	.50	to	1.00
Cattleyas	.....	to	50.00	40.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	4.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	4.00	.50	to	4.00
Asters	.35	to	1.50	1.00	to	2.00	.25	to	3.00
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.25	to	.50
Gardenias	8.00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings 1000	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. 100 Bchs.	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel { 1519 / 5893 } Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000 . . . $1.75. 50,000 . . . $7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 1468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 789 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 9 1913	First Half of Week beginning Aug. 11 1913
Cattleyas	60.00 to 75.00	60.00 to 75.00
Lilies, Longiflorum	1.00 to 5.00	3.00 to 5.00
Lily of the Valley	1.00 to 3.00	1.00 to 2.50
Gladioli	.50 to 1.50	.50 to 1.50
Asters	.50 to 1.50	.50 to 1.50
Daises	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1661 / 7665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones 708 and 709 Madison Square
Consignments Solicited

CENTRALLY LOCATED THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

CYRUS M. ROBINSON, Pres. L. ROBINSON, V. Pres. AS. L. ROBINSON, V. Pres.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY

BUY
BOSTON
FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST
HOUSE

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 243)

town shipments are, however, beginning to make up for this deficiency with considerable good stock. The gladiolus market is glutted. Even the best of them have failed to clean up completely. The rose market, too, has a very adequate supply and stock is coming in better.

DETROIT Mid - summer dullness last week affected every line of the business. The only redeeming feature is furnished by a look outdoors where the carnation plants stand or indoors where chrysanthemums are gaining daily in length and strength.

NEW YORK There is really nothing to write about in this market. It is unquestionably the dullest summer season ever experienced by the florists of this section. As things have been going of late there seems very little reason for opening the shop doors at all. The stock of flowers sent in by the few growers who think it worth while to send to the wholesale marts, is not large and consists mainly of asters and gladioli. Lilies are also quite abundant. The asters are principally of the small flowered sort as yet, only a few of the large variety being in evidence. These latter bring a price but the others "go for a song." Roses are not good and carnations are practically useless. A good many dahlias are seen but nobody wants them.

PHILADELPHIA Last week as a whole was a fairly good summer week. The bulk of the stock coming is under grade. This is particularly true of asters, notwithstanding that we have had considerable rainfall. The large-flowering varieties are not yet in and the mid-season sorts are not so choice as they might be. The gladiolus crop is now pretty well cut out and supplies of these are considerably smaller. Roses are a little bit on the increase as to quantity. A large percentage are under size, although fair as to stem and foliage. Carnations continue very scarce. Orchids also are quite scarce. Hydrangea heads are now a feature and selling fairly well. Plenty of lily of the valley and lilies and of very good quality. These go steadily at normal prices. Delphinium belladonna, lavender, is a satisfactory item and fills many a difficulty admirably. There is also some blue cornflower. Lilium speciosum, both the rubrum and album, are in season and are cleaning up nicely. The demand for nymphea and nelumbium is fairly good, as is usual for this time of year.

ST. LOUIS There is nothing new to report in St. Louis. Prices continue the same. Retail business is very dull. Flowers coming in are more or less of very poor quality and the demand has been especially light in colored stock. The flowers that can be depended upon daily are asters, roses, lilies, carnations, gladioli and tuberose stalks. Greens of all kinds have a large demand, owing to the scarcity of smilax.

Providence, R. I.—An exceptional lull in the trade is reported by practically all of the dealers during the past week. Although this is the time when the growers and retailers look for a quiet period, the market is the slowest in years.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Aug. 9 1913	First Half of Week beginning Aug. 11 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 3.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.50
" Ordinary	.50 to .75	.50 to .75

Next Week

FULL STORY OF THE CONVENTION PROCEEDINGS UP TO THURSDAY NOON.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus plumosus seedlings, $1.00 per 100; $6.00 per 1000; $50.00 per 10,000. COLLINGDALE GREENHOUSES, Collingdale, Pa.

A. Sprengeri, 3-in., $3.00 per 100. Strong plants. Cash, please. J. W. MILLER, Shiremanstown, Pa.

6000 Asparagus Sprengeri, 3-in. pots, $4.50 per 100, $40.00 per 1000; 4-in. pots, $6.00 per 100, $50.00 per 1000.
White and Yellow Snapdragons, 2½-in., topped two and three times, $3.00 per 100.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N..Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Lilium Harrisii and Amaryllis Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Carnation plants from field, $50.00 per 1000; $6.00 per 100. Cash. Mrs. Ward, Dorothy Gordon, Sangamo, Enchantress, Winsor and White Enchantress. Joy Floral Co., Nashville, Tenn.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums.
STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CROTONS

Robert Craig Co., Market and 49th St., Philadelphia, Pa.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 11 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Ferns in Flats.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 199

FERTILIZERS—Continued

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
New Geranium Maryland.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot
For page see List of Advertisers.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

NURSERY STOCK—Continued

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

Pansy Seed—"Mile High" Strain, the result of years of selection and the addition of the best from numerous sources. Colors, size and habits, extra good. Trade Pkt., $1.00; 6 Pkts., $5.00; 12 Pkts., $9.00. THE PARK FLORAL COMPANY, Denver, Colo.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

Frank Oeschlin,
4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½ in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMULAS

Primula obconica and Primula chinensis, best varieties, at $3.00 per 100; $25.00 per 1000. Cash please. J. H. FIESSER, North Bergen, N. J.

PUTTY

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—Continued

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
New Zealand Spencer Sweet Pea Seed.
For page see List of Advertisers.

T. J. Gray Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy Seed.

For List of Advertisers See Page 199

SEEDS—Continued

Weeber & Don, 114 Chambers St., New York. Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 72 Cortland St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

Rocky Mountain Columbine Seed (Aquilegia Coerulea). The Colorado State flower. True to type. Seed grown from collected plants and we grow no other variety. New crop now ready. $1.00 per oz. Write for prices in large quantity. THE PARK FLORAL COMPANY, Denver, Colo.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co.,
6 & 7 South Market St., Boston, Mass.
Pot-Grown.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co., 316 Walnut St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED—An experienced pot plant man for section foreman; must be a sober man and good grower of Xmas and Easter plants, and have some knowledge of orchids. Steady job. Wages $85.00 per month, house, etc. A good opening for right man. Address "N. T.," care HORTICULTURE.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED by A1 assistant on a private establishment; English; has had 12 years in all branches of horticulture, including England, America and Continental Europe; has exceptional knowledge of plants, both indoors and out; New England preferred. Address "R. C. S.," care of HORTICULTURE.

FOR SALE

FOR RENT

A greenhouse, about 5000 ft. glass, with about one acre of land. Large boiler, nearly new.
EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1034.

FIVE GREENHOUSES FOR SALE

Near Boston. Up-to-date buildings, some iron-frame; electric lights. Handsome office, large show windows. Steam heat. Established trade 20 years. Street cars pass the door. Steam cars 3 minutes walk. Owing to recent death of owner this property, with about one acre of land, will be sold very low. Will meet parties interested at office of HORTICULTURE by stating time. Address "M. H. N.," care Horticulture Publishing Co.

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Seed store; also handling bulbs, garden tools and poultry supplies; doing good business; ideal location. Reason for selling, death of member of firm. Address DWIGHT SEED STORE, 32 N. Ninth St., Reading, Pa.

FOR SALE—Sharon, Mass., 17 acres, cottage house, shed, barn, two greenhouses. Cheap for cash. Full particulars. E. G. BLANEY, Swampscott, Mass.

In writing to Advertisers kindly mentiou Horticulture

NEW OFFERS IN THIS ISSUE

ACACIAS.
Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

BAY TREES.
"Tel-Wood," care of HORTICULTURE.
For page see List of Advertisers.

BLOOMING PLANTS FOR CHRISTMAS AND EASTER.
Ernest Oechslin, River Forest, Ill.
For page see List of Advertisers.

BODDINGTON'S MAJESTY MIGNONETTE SEED.
Arthur T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

CALIFORNIA PRIVET.
Franklin Davis Nursery Co., Baltimore, Md.
For page see List of Advertisers.

CHRYSANTHEMUM MANURE.
Wm. Elliott & Sons, 42 Vesey St., New York.
For page see List of Advertisers.

COLD STORAGE GIGANTEUMS.
Yokohama Nursery Co., New York, N. Y.
For page see List of Advertisers.

CROTONS AND DECORATIVE PLANTS.
Robert Craig Co., Market and 49th St., Philadelphia, Pa.
For page see List of Advertisers.

CUT FLOWERS AND POT PLANTS.
Poehlmann Bros. Co., 32-35-37 Randolph St., Chicago, Ill.
For page see List of Advertisers.

DAHLIAS, CANNAS, GERANIUMS.
R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

DECORATIVE AND BLOOMING PLANTS.
Frank Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

EASTERN HEADQUARTERS FOR FLORISTS' SUPPLIES.
N. F. McCarthy & Co., 112 Arch St. and 31 Otis St., Boston, Mass.
For page see List of Advertisers.

FERTILIZERS.
Hudson Carbon Co., Ballston Spa, N. J.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Pennock Bros., 1514 Chestnut St., Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.
John C. Moninger Co., 910 Blackhawk St., Chicago, Ill.
For page see List of Advertisers.

HARDY AND TENDER PLANTS; ORCHIDS, ROSES, ETC.
Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

HARDY ASTILBES AND SPIRAEAS.
Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.

HEATING APPARATUS.
Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

HENDERSON'S SUPERIOR BULBS FOR AUTUMN PLANTING.
Peter Henderson & Co., 35 and 37 Cortlandt St., New York.
For page see List of Advertisers.

"KING IDEAL" BOILER.
King Construction Co., North Tonawanda, N. Y.
For page see List of Advertisers.

LILIUM HARRASII, SEASONABLE BULBS, FERNS AND ROSES.
F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

MODERN GREENHOUSE CONSTRUCTION.
William H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

NEW BEDDING GERANIUM "HELEN MICHELL."
Michell's Seed House, 518 Market St., Philadelphia, Pa.
For page see List of Advertisers.

NOVELTIES AND CHOICE GOODS IN FLORISTS' SUPPLIES.
H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.
For page see List of Advertisers.

OPPORTUNITIES FOR CUT FLOWER BUYERS.
The Leo Niessen Co., Niessen Building, Philadelphia, Pa.
For page see List of Advertisers.

PEONIES.
W. L. Gumm, Remington, Ind.
For page see List of Advertisers.

PULVERIZED SHEEP AND CATTLE MANURE.
Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
For page see List of Advertisers.

REVERO GARDEN HOSE.
Revere Rubber Co., Boston, Mass.
For page see List of Advertisers.

RHODE ISLAND REDS.
S. S. Pennock-Meehan Co., 1608-1620 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

SASH OPERATING DEVICES AND GREENHOUSE FITTINGS.
Advance Co., Richmond, Ind.
For page see List of Advertisers.

TWO NEW LILIES FROM CHINA.
R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston, Mass.
For page see List of Advertisers.

VINCA MINOR AUREA.
Wm. Tricker, Arlington, N. J.
For page see List of Advertisers.

WALSH'S RAMBLER ROSES.
M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

WHOLESALE FLORISTS.
Berger Bros., 140-142 North 13th St., Philadelphia, Pa.
For page see List of Advertisers.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

Pearson Street
LONG ISLAND CITY, N. Y.

WRITE FOR CATALOGUE AND DISCOUNTS
A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, [illegible] can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1½	in.	@	$6.00	500	4	in. @ $4.10
1500	2	"	"	4.88	456	4½	" " 5.20
1500	2½	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 7.5
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY Long Distance and Export Trade

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.

Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

When writing to advertisers kindly mention HORTICULTURE.

When writing to advertisers kindly mention HORTICULTURE.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON **KIL-WORM** POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon KIL-WORM makes 50 gallons liquid when mixed with water

POISON **KIL-WEED** POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL-WEED diluted with water will make 30 to 45 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

Aphine

The Insecticide that Kills plant Lice of every species

The Recognized Standard Insecticide.

For green, black, white fly, red spider, thrips, mealy bug and soft scale.

$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.

75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.

$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.

75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Imore per cent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$1.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

MUM MANURE

Brings them to perfection — it's English you know

56 lb. Bag $6

Wm. Elliott & Sons

42 Vesey St., New York

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

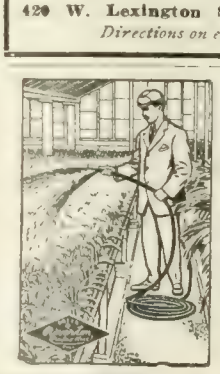
27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.



DREER'S

Florist Specialties.

New Brand New Style.

Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

¾ inch,	per ft.,	15 c.
Reel of 500 ft,	"	14½c.
2 Reels, 1000 ft.,	"	14 c.
1½-inch,	"	13 c.
Reels, 500 ft,	"	12½c.

Couplings furnished

HENRY A. DREER,

714 Chestnut St., PHILADELPHIA, PA



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to

B. HAMMOND, - Fishkill-on-Hudson, New York.

GREENHOUSE BUILDING OR CONTEMPLATED.

Toronto, Ont., Can.—Charles Grobba, one house.

Champaign, Ill.—J. E. Yates, palm house 25 x 30.

Holyoke, Mass.—Gallivan Bros., house 28 x 150.

Bangor, Me.—J. Martin, Jr., additions and alterations.

Maquoketa, Iowa—H. L. Hill, two houses 18 x 75, one 10 x 72.

Providence, R. I.—Quidnick Greenhouses, additions and alterations.

Minneapolis, Minn.—Andrew Herzog, Penn. avenue, north, addition.

Philadelphia, Pa.—John A. Ehrler, 2138 Bellevue street, house 20 x 96.

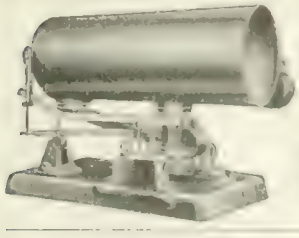
York, Me.—Milan Moulton, Cider Hill Farm, vegetable house 35 x 125.

Painesville, Ohio—Painesville Garden & Greenhouse Co., three houses.

Providence, R. I.—Edgar J. Lowenstein has purchased "Dunmere," the handsome estate of the late R. G. Dun, located in the exclusive residential section of Narragansett Pier, one of the most advantageously situated estates there, and its new owner will occupy it as a summer home. Adjoining the well cultivated lawns and rose gardens, is a gardener's cottage and a range of greenhouses, of iron frame construction, comprising a grape house 60 feet, fern house 30 feet, plant house 70 feet, and palm house, 30x40.



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



CONSULT US-ON-THE HEATING

ROB'T ROSS-JONES
HARRISBURG, PENNA.

PATENTS

Trademarks and Copyrights

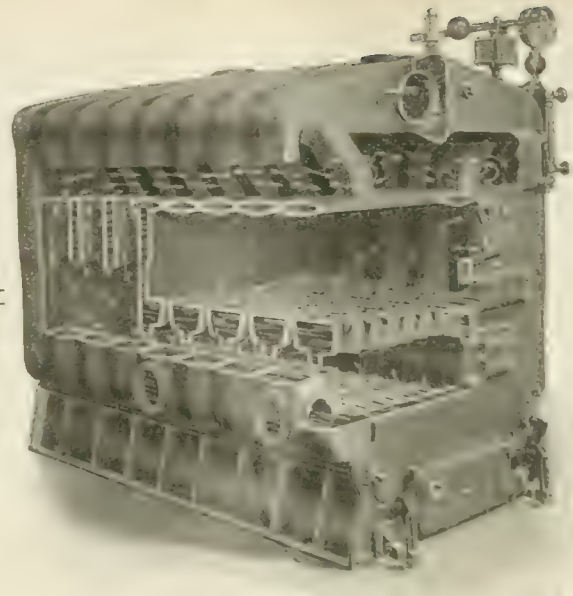
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

The King "Ideal"



Burns Soft Coal

"King Ideal" Boiler
FOR
GREENHOUSES

A square Sectional Cast Iron Boiler designed especially for burning soft coal, so that it is

SMOKELESS

The King Ideal is a very practical heater which costs a trifle more than the old style rocking grate hard coal boiler but it

Saves 1-3 of the Season's Fuel Bill

Write for the Bulletin No. 41 and find out why the King Ideal Boiler like a King Greenhouse is the most profitable investment you can make.

KING CONSTRUCTION CO.

28 King's Road, NORTH TONAWANDA, N. Y.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Dreer's Peerless Glazing Points

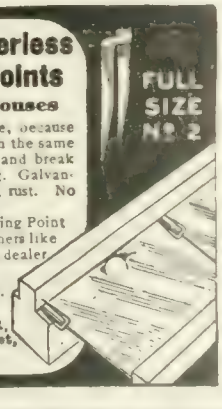
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us

1000, 75c. postpaid. Samples free.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.



GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

When writing to advertisers kindly mention HORTICULTURE.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street

JERSEY CITY, N. J.



What the Users say

KROESCHELL BETTER THAN CAST IRON

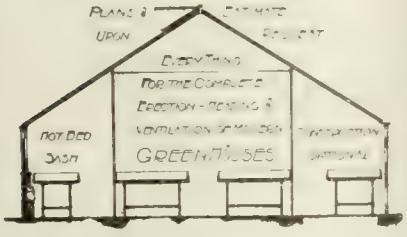
Your No. 7 Kroeschell Boiler, rated at 15,000 sq. ft. of glass, is carrying my entire range of 17,000 sq. ft. of glass. It might heat more. We maintain a temperature of 50° and have no trouble to keep the proper temperature in the coldest weather. During the cold snap of 1912 we fired every three hours during the night. I find it a saving in fuel to fire often. I have the Kroeschell Boiler six years and the only expense is one set of grates. **No other but a plate boiler for me.**

(Signed) H. M. TOTMAN

Jan., 1912. Randolph, Vt.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



"THE ADVANCE LINE"

Did you ever stop to consider the growth of our concern? If you haven't it is well worth your time. We have been manufacturing ventilating machinery, and greenhouse fittings for eight years. We are known by every one connected with the Florists Business. Why is this?

First, we advertise, and find it pays, but this does not bring our product to national light, as much as the fact that we manufacture good material.

We send our customers the kind of goods that they can be proud of, and when a man is proud of anything he has, he will tell his neighbors.

Our customers are given prompt and careful service, this we also consider a great business promoter. You will agree with us that our policies are correct.

We have the goods, so to speak. You should buy from us. Write us now.

ADVANCE CO.
RICHMOND, - - - - - IND.

In Writing Advertisers Mention Horticulture



Yes, We are going to the Convention, and so are you!

Look for our exhibit there, and we will gladly answer any questions about the **Best Way** to build your new **GREENHOUSES.** ¶ When in Chicago visit our factories and become acquainted with the way the

MONINGER GREENHOUSES

are made. But a few minutes ride from the down town district. ¶ Fine large catalogue free.

JOHN C. MONINGER CO., - 910 Blackhawk Street, - CHICAGO, ILL.



Light-Strong-Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot unwrap, kink or burst, like old-style wrapped duck construction. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings.

SEE OUR EXHIBIT AT MINNEAPOLIS, CENTRE OF BLOCK 1

ASK FOR REVERO HOSE CATALOGUE

Manufactured by

REVERE RUBBER CO., BOSTON, MASS.

Branches

NEW YORK PHILADELPHIA PITTSBURGH
CHICAGO MINNEAPOLIS
NEW ORLEANS SAN FRANCISCO
KANSAS CITY



ERECTED FOR THE CITY OF WILKESBARRE, PA.

The Park Board of Wilkesbarre, Pa., comprise eight of the most prominent business men; naturally they are proud of their City; when they decided to build greenhouses, a site was selected close to the splendid **COURT HOUSE** which looms up in the rear; they instructed their City Engineers to investigate the various types of Greenhouses; the fact that the **LUTTON** construction was adopted speaks well for the adaptability of **LUTTON** houses for **PUBLIC PARKS AND PRIVATE ESTATES.**



ERECTED AT IRVINGTON-ON-HUDSON, N. Y.

This practical grouping of the Greenhouses forms one of the most interesting features on this beautiful **HUDSON RIVER** estate. The **LUTTON CONSTRUCTION** has found favor with people who insist on having the best.

WILLIAM H. LUTTON, Jersey City, N. J.



"You Can't Drive a Nail With a Sponge No Matter How Hard You Soak It"

A SPONGE was not made for that purpose. No more can you get economical results from any cast iron boiler for greenhouse heating, if the boiler was not designed and made for the purpose of greenhouse heating.

It was over 40 years ago when we first started thinking about making a greenhouse boiler.

For years we thought and worked over it before even a casting was made.

Three different boilers were made by us in the years that followed.

Each in turn was discarded for one that better met the continually increasing demands for greenhouse economy.

This last boiler has its two side and one big center flue-way, gets heat quicker, burns the coal down to a free-er ash and pushes the water through the coils with greater force than any previous one.

It's by far the most economical of them all.

When you buy a boiler—buy a greenhouse boiler and not a residence boiler, struggling and straining to economically do greenhouse work.

You can't expect a sponge to do a hammer's work.

LORD & BURNHAM CO.

SALES OFFICES:

NEW YORK: 42nd St. Bldg.
BOSTON: Tremont Bldg.
PHILADELPHIA: Franklin Bank Bldg.
CHICAGO: Rookery Bldg.
ROCHESTER: Granite Bldg.
TORONTO, Can.: 12 Queen St., East

FACTORIES:

IRVINGTON, N. Y.
DES PLAINES, ILL.

HORTICULTURE

Vol. XVIII. AUGUST 23, 1913 No. 8

LIBRARY
NEW YORK
BOTANICAL



THEODORE WIRTH,
President Elect Society of American Florists and Ornamental Horticulturists

DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests
PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.
SUBSCRIPTION, $1.00

TWO RARE LILIES
FROM CHINA

Hardy, Beautiful, Fragrant
The Finest Novelties Extant

LILIUM MYRIOPHYLLUM

Mr. E. H. Wilson, the famous plant collector, collected for us the bulbs now offered, in Northwestern China. He considers this the finest of all lilies. It is absolutely hardy, and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink and with a beautiful shade of canary yellow at the centre, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy oppressive odor of most lilies. Blooms out-of-doors early in July. Awarded the Gold Medal at the S. A. F. & O. H. International Flower Show, New York, 1913, as the **Finest New Plant** on exhibition; Gold Medal by the Massachusetts Horticultural Society, and a first-class certificate by the Royal International Exhibition, London, 1912. Bulbs, ready in October, each, $1.50; dozen, $15.00.

LILIUM SARGENTIAE

This noble variety was also collected by Mr. Wilson. This is one of the strongest growing lilies —frequently attaining a height of six to eight feet. The flowers vary in number from five to ten on a stalk, and in size and shape resembling Lilium Harrisii, greenish white, shaded purple on the outside, and of the purest white within, with a tint of citron in the centre. The flowers have a pleasing fragrance. This lily will undoubtedly be largely used for outdoor planting as well as for forcing. Many consider it the finest of all tubular-flowered lilies. It flowers somewhat later than Lilium myriophyllum and being of larger growth, has a distinct place. Awarded a Silver Medal by the Massachusetts Horticultural Society, 1912, and a Gold Medal August, 1913. Bulbs, ready in October, each $1.50; dozen, $15.00.

R. & J. FARQUHAR & CO.

Nurserymen and Seedsmen

6 and 7 South Market St., BOSTON, MASS.

BRILLIANCY

We have an exceptional fine lot of nice clean Brilliancy Coleus in 2-in. pots, for immediate shipment. With its handsome, bright, luxuriant foliage this is recognized as a leading Christmas plant when grown in 4 and 5-inch pots. The color is a bright carmine, shading off to a deep maroon, the margin being yellow and green, the whole leaf having a rich velvety lustre.

Strong plants from 3 inch pots, $3.00 per 100, $25.00 per 1,000

BEGONIA—*Glorie de Chatelaine*

Dwarf compact grower, always full of blooms of a lively rose color; a grand winter bloomer; an easy grower.

2 inch plants 75 cents per dozen, $4.00 per 100

HARDY ENGLISH IVY

Strong 2 inch, $2.00 per 100, $8.75 per 500, $15.00 per 1,000

GERANIUMS

Over 300,000 for immediate shipment, from 2 and 3-in. pots. Let us book your order for future shipment.

R. VINCENT, JR. & SONS CO. . . . White Marsh, Maryland

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

BAY TREES

For sale cheap, eight large Bay Trees, height 7½ to 9 ft., diameter 4½ to 5 ft. Can be seen at Beverly Farms, Mass., and can be delivered at once. Eight more can be delivered in fall. Address "TEL—WOOD," care HORTICULTURE.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. 2890 Bedford BROOKLYN, N. Y.

LIST OF ADVERTISERS

Page

Advance Co.. . 290
Albany Cut Flower Ex.....282
Allen, J. K.....282
Anderson, S. A..277
Aphine Mfg. Co.288
Aschmann, G....260
Atlanta Florist Co. 280
Ayres Co., S. Bryson 275

Badgley, Reidel & Meyer.....282
Barnard, W. W. Co. 275
Barrows & Son..260
Bayersdorfer, H. & Co.....279
Bay State Nurseries 259
Bloomingdale's ..276
Bobbink & Atkins 272
Boddington, A. T. 271-273
Bolgiano & Son, J. 275
Boston Co operative Flower Market 283
Boston Florist Letter Co.....280
Boston Flower Exchange 283
Breck, J. & Son..275
Breck - Robinson Nurseries 273
Breed, Edw. W..272
Breitmeyer's, J. Sons 276
Bryan, Alonzo J.273
Burnett Bros....275
Burpee, W. A. & Co. . 275

Page

California Florist 277
California Seed Growers' Asso.275
Carbone 277
Chicago Carnation Co 280
Childs, John Lewis 274
Clarke's, D., Sons 276
Clark, Everett B. Seed Co 275
Cooke, Geo. H...278
Cowee, W. J. ...282
Craig, Robt. Co.267

Dards 276
Davis Nursery Co., Franklin..273
Dawson, H. S...259
Dorner & Sons Co 267
Dreer, H. A..... 269-289-290
Dunlop, John H.277
Dysart, R. J....282

Eastern Nurseries 259
Edwards Folding Box Co 280
Elliott's, W., Sons 272
Epstein, Julius.277
Ernest, W. H....289
Esler, I. G. ...290
Eyres 276

Fairfield Landscape & Nursery Co 272
Farquhar, R. & J. & Co. . . . 258
Ford, W. P .282

Page

Forrest, Frank H. 277
Fottler, Fiske, Rawson Co....275
Framingham Nurseries 272
Froment, H. E..282

Galvin, Thos. F.277
Gasser, J. M. Co.277
Goodsell, P. H..272
Grey, T. J. Co..275
Gude Bros. Co...276
Gumm, W. L....267

Hail Association.290
Hall & Robinson 277
Hammond Paint and Slug Shot Works 288
Hart, Geo. B.....283
Heacock, Jos.... 273
Heinecken, Otto..275
Henderson, A....267
Hess & Swoboda 276
Hews, A. H. & Co. 290
Holland Nurseries 260
Hilfinger Bros...289
Holm & Olson...276
Hudson Carbon Co 288

Jerdaman, H....273
Johnson, J. Oliver 274
Johnston Bros...277
Jones, Robert Ross 290

Kasting, W. F. Co. 283
Keller, J. B. Sons 276
Kervan Co.....282

Page

King Construction Co.....289
Kramer, F. H...277
Kroeschell Bros.290
Kuebler, W. H 282

Lager & Hurrell.267
Lange, A.....277
Lemon Oil Co...288
Leonard Seed Co.274
Leuthy, A. & Co.260
Loechner & Co..273
Lutton, W. H...291

MacMulkin, E...277
May & Co., L. L.277
McConnell, Alex.276
McCarthy, N. F. Co 280
McCray Refrigerator Co.....279
McHutchison & Co. 260
McKenzie, John..259
McManus, Jas. ..282
Metropolitan Material Co.....290
Michell's Seed House . . .274
Michigan Cut Flower Ex.....280
Millang, Chas....282
Miller, E. S.....275
Montreal Floral Exchange 282
Moore, Hentz & Nash 282
Murray, Samuel.276

National Nurserymen 272
N Y Stable Manure Co. . . .288
Niessen, Leo Co.280
Oechslin, Frank.267
Onwerkerk, P....260

Page

Park Floral Co..276
Palmer, W. J. & Son 276
Parshelsky Bros.290
Pelicano, Rossi & Co.....277
Penn, the Florist.277
Pennock - Meehan Co 281
Pierce Co., F. O.290
Pierson, A. N...267
Pierson, F. R. Co.267
Pierson U - Bar Co. 292
Plant Food Co., 20th Century..288
Poehlmann Bros. Co. 266c, 280
Pollworth, C. C.276
Pulverized Manure Co. . . .289

Quaker City Machine Co.....290

Reed & Keller...282
Reinberg, Peter..280
Reynolds & Mackay 267
Rice, M. Co.....277
Robinson Co., H. M. 282
Roehrs, J. Co...267
Rolland, Thomas.267
Rolker, A. & Sons 260-289
Rosery, The.....276

Sander & Son...267
Scott, John.....259
Schling, Max....277
Sharp Partridge & Co. . . .290
Sheridan, W. F..282
Siebrecht, Geo. C.282

Page

Siggers & Siggers 289
Skidelsky, S. S. & Co.....275
Smith, P. J.....282
Smith & Co., E. D. 272
Smith, W. & T. Co 260
Smyth, Wm. J..276
Sprague, J. H...267
Stearns, A. T. Lumber Co....290
Syracuse Pottery Co. 289

"Tel-Wood" 259
Totty, Chas. H..260
Thorburn, J. M. & Co. 275
Traendly & Schenck 282

Valentine, J. A..276
Van Assche, F...290
Vick's, Jas. Sons.275
Vincent, R., Jr., & Sons Co.... 259

Wants, For Sale.288
Ward, R. M. & Co. 260
Weeber & Don...275
Welch Bros. . . 280
Whittier & Co., W. B. 272
Wilson, Robt. G..276
Wood Bros. . . 260
Woodrow & Markefos 282

Young & Nugent 276

Zangen, O. V....275
Zinn, J. A.....277
Zvolanek, Ant C.275

For Buyers' Directory and Ready Reference Guide

See Pages 284, 285, 286, 287

WHAT TO BUY

Sometimes a florist does not know just what would be most appropriate for him to buy in lily bulbs. So if you ever feel that way, let us know it. Say when you want flowers and what temperature you can maintain and we can advise you what and when to plant. Giganteum and Formosum are the safest of all lilies—other varieties are a gamble: but whatever variety you decide to plant it is best to get Horseshoe Brand bulbs because they are positively the best produced in the respected varieties.

CATALOG SENT UPON REQUEST

COLD STORAGE GIGANTEUM
(F. O. B. NEW YORK)

Cases of 100	Size 7-8	at	$ 6.00	each
" 100	" 7-9	at	8.50	"
" 340	" 7-8	at	21.00	"
" 300	" 7-9	at	21.00	"

Ready for delivery at any time. *ORDER NOW.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights P O No 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses

Write for Trade List

W. & T. SMITH COMPANY, Geneva, N. Y.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

	Per Hundred
American Beauty, 4 in.,	$12.00
Hillingdon, 4 in. . .	10.00
Sunburst, 4 in. . . .	15.00
Pink Killarney, 4 in. .	8.00
500 Radiance, 3 in. .	8.00

CHAS. H. TOTTY
MADISON, N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

When writing to advertisers kindly mention HORTICULTURE.

Ferns in Flats

ALL VARIETIES

We are now shipping and will continue until Sept. 1st to ship Flats by express. Flats contain about 110 clumps.

Price $2.00 per flat, 20 or more flats $1.75 each.

Write for list of varieties, illustration and full particulars.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Adiantums

Bench-grown adiantum that has been denuded by continual cutting should have a good cleaning up and a period of rest. To bring this about let up on water supply to their roots. This should be done gradually and at no time should water be entirely withheld. Keep the atmosphere in a dryer state, bringing the atmospheric moisture down to the minimum point. When they show signs of renewed activities they should have a rich mulch of equal parts of well-rotted cow manure and new soil spread on the surface about half an inch deep. When new fronds are showing well all over the beds give them plenty of moisture both at the roots and in the atmosphere. Give only enough of shade to keep them from burning or losing their deep green color. When they have made three or four inches of growth give regular liquid manure feeding.

Care of Chrysanthemums, Etc.

The plants by this time have taken a good hold of the soil in the benches, and should now begin to make rapid growth. Proper attention to watering and sprinkling, to weeding and working among the plants, to ventilation and purity of air, and to the maintenance of neatness and cleanliness, will now take up most of the grower's time. The market value of cut flowers nowadays is largely gauged by the length, strength and straightness of their stems. Supports of some kind are needed in the raising of most plants to sustain the dense leafage, to give firmness to stem and branches and to guide the flowering shoots in their upward growth. Steel rods, wooden stakes and devices of various designing in wire, string, or both, are called into service for the purpose. Too tight a fastening of the plants, as they push upward, is not advisable. There should be room enough between stake and living wood to allow of expansion in growth and free sway of foliage. Always leave the uppermost undeveloped growth entirely unhampered by any string.

Cyclamen for 1914

To have plants of good size for the winter of 1914 seed should be sown now without delay as it takes from fourteen to fifteen months to bring them into flower. Be sure to procure fresh seed of the very best strain from a reliable seedsman. The seed of cyclamen is always very irregular in starting so give them sweet and rather sandy mixture to germinate in. A good compost is a mixture of fibrous loam, leaf mold and peat in equal parts with a little sand. Give the pans or flats plenty of drainage in order to keep the soil from becoming sour. I find it a better plan to sow the seed so that they stand about half an inch apart each way and quarter of an inch deep. When sown this way you can keep the surface of the compost sweet by a little cultivating off and on. Keep them shaded and moist and you will soon see them beginning to come through the soil.

Show Pelargoniums

Pelargoniums that have been resting should by this time have their wood well ripened. To propagate well the wood should have undergone a rest of three or four weeks. Make cuttings from the tops, leaving a couple of joints to each cutting; place in a cutting bench and with shade and a moderate amount of moisture they will soon root. They can be potted up into 2½ or 3-inch pots. For a compost use three parts of fibrous loam to one of well-decayed cow manure and enough sand to lighten it up. Keep shaded for a short time and then give them a bench where they will have plenty of light. When all the cuttings have been taken, these old plants can be pruned back moderately hard which will compel them to break into a sturdy growth. These can be repotted into a new compost like the one mentioned above and grown on. Be careful not to overwater them until they have started new root action and top-growth.

Sowing Pansies

From now up to the first week in September is the best time to plant pansy seed. Procure the best strains in mixed or separate colors. Pansies at all stages of growth like good soil so take a little trouble with the seed bed. If only a few thousand plants are wanted it is better to sow the seed in a cold-frame if plenty of leaf-mold is at command. Mix a good quantity of it through the soil with some well-rotted cow manure. Sow the seed broadcast or in shallow drills and keep the soil in moist state. Whenever the seedlings are large enough to handle they should be transplanted so that each shall have abundant room. Keep the plants well watered and the surface of the soil stirred frequently.

Seed Sowing

In order to have plenty of nice flowering plants of daisies and myosotis no time should be lost in making a planting of these very important plants. Do not sow too thickly as one is liable to do it nine times out of ten. Sow outdoors in a cold frame and let them have the same treatment as for pansies. When pricking them out select a frame where you can easily protect them with covering during the winter.

Mr. Farrell's next notes will be on the following: Bouvardias; Care of Carnations; Housing Tender Plants; Odontoglossums; Propagating Geraniums; Stevias.

AUG 26 1913

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

King George Melon

King George Melon is one of the newest introductions and with such a title great things are expected of it. Novelties are continually being sent out on all things claiming prestige over existing varieties—some justly so, but alas! others do not always justify all that is said of them. This is not so with King George Melon for after three trials with us here it proves itself one of the best and all the claims made for it are justified. Having an attractive appearance—oval in shape, dark green skin netted deeply, the flesh is scarlet in color and cuts very deep, while the flavor is surpassed by none. It sets its fruit very freely which attain quite an average size.

After all these good qualities one little fault must be recorded—how easy to find them even in the best. It requires special care at the roots, anything touching on slackness in the way of watering is at once resented. It resembles Sutton's Perfection somewhat in this way.

Late Muscat Grapes

Muscat grapes that are hanging through the hot weather ought to be given treatment that will help the vines in addition to keeping the grapes. In the winter time little moisture is needed but with the recent hot weather moisture must be around to help the foliage and also to help keep red spider down. The roots, too, must not be allowed to want for water—call it "a betwixt and between treatment." Early in the morning with a heavy dew or during a stormy day no moisture will be needed. Look over the bunches periodically to remove any decayed berries. A berry removed in time saves nine.

Winter Tomatoes

Make a sowing of tomatoes for the winter crop at once. Use well drained pans, or flats if large quantites are required, fill them up with porous soil that has passed through a half-inch seive making it just firm enough so that when it is watered it will not settle down any. Some prefer to water the soil before the seeds are sown, others will sow the seed, cover them over with a little soil and then water. They will germinate and the seedlings will grow either way if the amount of soil covering the seeds is no thicker than a seed itself. Many small seeds are ruined by sowing them too deep. It is better to water the soil before real small seeds are sown as there is a chance of washing them out. Pans are best plunged which does away with watering until the seeds come up. Cover them over with a piece of glass to hold the moisture until they show through. Pot up into 2¼s as soon as they are large enough to handle using the same soil as they are sown in. Keep the seedlings in a well ventilated house near a side ventilator if possible, as soon as they have taken hold of the soil.

Bush Beans

When making a final sowing of bush beans in the garden try to grow them so that they will be handy to receive temporary protection from early frosts or sow three single drills (two double ones) so that a temporary frame consisting of a stake drove in the ground with a 1 inch by 2 inch nailed on to it can be made for them. Shutters used for winter covering can be placed over the frame and so prolong the season considerably. A sowing made now in 10-inch pans or azalea pots will often come in useful and will be through before the last bench is wanted in the vegetable house. Fill the pots only half full at the time of sowing, leaving the remaining room for top dressing.

Turnips for Forcing

Where it is intended to force turnips for the tender tops during the winter months an additional quantity should be sown for the purpose. In many places these should be in already, others will soon have to get them in. Any one who has not tried this method of forcing turnips for the green tops during the winter months is recommended to try it. It is generally liked, makes a nice change, and is easy to grow.

Soil for Winter

Most vegetables will be found to grow best in a soil that is half decayed, in this stage the food substances are more soluble than when using new or green sod. Have a little pile got together expressly for the vegetables mixing in a little manure if the sod is any way poor. Sod that has been taken from a good pasture will not need any, but a little soot will improve it. This of course applies only where growing in benches is practiced. Houses erected for growing vegetables commercially will be large enough to have a team go in and plough the whole thing up after manuring in the usual way.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Shipping the Cut Blooms

This may seem an unnecessary subject to bring up, yet a good many hard earned dollars are lost almost daily, by the careless handling of cut roses, before and during transit. Many also go out unprepared to stand the rough handling which they are subject to on their way to the commission houses or the retail customer. Remember that all roses cut should remain in the icebox for at least two hours before they are packed for shipment. This is very important, for if the cut roses are not properly hardened they will not last as long or keep so well.

Keep the stems of all the cut blooms immersed in clean fresh water—water that you would not hesitate to drink. This is another important thing. Stagnant water is injurious to the quality of the flowers, and if they are immersed in it for any length of time, all the foliage coming into contact with such water will perish and turn brown. This hardly adds beauty to the cut blooms, neither does it help to sell them.

Remember that the flowers will be handled at least three times before they finally find themselves in someone's home, and if they are in a poor condition when they leave the grower, how can they ever give satisfaction to the customer buying from the retail florist? That is a question that ought to be kept in mind when cutting, storing, packing, in fact even growing roses and other cut flowers, for either commercial or private use.

Getting a Name

During "gluts" in markets, when even the very best of stock sells for a low price, you will notice that growers with a reputation always receive much better prices for their stock than growers who just ship in a helter skelter way, paying little or no attention to the way or condition in which their product arrives in the market. Even when the market is good, stock known to be select always brings more.

It will take at least three years to establish a name, so do not be discouraged if you do not notice any difference in the price the very first time you send your boxes down to market, filled with well graded and perfect roses.

Wax and Tissue Papers

Do not be too economical in using wax and tissue papers, as they are very essential to proper packing of roses. Ordinary tissue papers are all right in their place, but as soon as the least water touches them they are done for, and this fact should be borne in mind when lining boxes. A good way is to use a little wax paper in connection with the other papers, even though you use only enough to go around the wet stems of the cut roses. This will protect the other papers a little from wet, and will also keep the cut roses from sliding around in the box, as they would should the wax paper be used alone.

Tying the Roses in Boxes

Where long stemmed roses are packed in paper boxes, whether they are Beauties or others, it is well to run a piece of heavy string around the bottom of the box, and have it enter into the box two or three inches from the bottom, and then tying the two ends inside of the box, thus holding the roses firmly, yet gently in place, preventing them from being broken when the box is roughly handled during transit. Needless to say the rope should not be tied anywhere near the buds, for the foliage near the bud is as valuable as the bud itself. Many long stemmed Beauties are sold cheap because their foliage is almost ruined by careless handling.

Have the rope or string come about a foot away from the ends of the stems, where bruised foliage will not count so much, for this much of the stem is usually put into vases when the flowers are put up at the house.

The string which is used for this purpose should not be too thin, as it would then cut through the box, should this happen to be a paper one, as is the case on most of the places shipping anything to the market.

Among the Young Plants

Beauties that have been benched for some time will now call for the wires for the second tier, and some for the third and last. Keep them well strung, for if there is anything that looks unsightly, it is poorly stretched wires, which make the plants look so strange. In tying be very careful not to bunch the shoots too much, for this would look very bad and would not be of any benefit to the plants themselves. A good grower will have the growth of the plants well distributed over all the wires so that there is not a place where they will be crowded. Another thing worth while paying attention to is the cutting of the string after tying a knot. How often do we see a lot of long strings sticking out into the walk and how bad it does look! How different to see a bench of Beauties tied so that you cannot see the strings at all. Do your work neatly, it does not cost any more, and the difference is well worth it.

HORTICULTURE

VOL. XVIII AUGUST 23, 1913 NO. 8

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Theodore Wirth, President-elect S. A. F. and O. H.

NOTES ON CULTURE OF FLORISTS' STOCK—Adiantums—Care of Chrysanthemums, etc.—Cyclamen for 1914—Show Pelargoniums—Sowing Pansies—Seed Sowing—*John J. M. Farrell*..... 261

FRUIT AND VEGETABLES UNDER GLASS—King George Melons—Late Muscat Grapes—Winter Tomatoes—Bush Beans—Turnips for Forcing—Soil for Winter—*George H. Penson*..... 262

ROSE GROWING UNDER GLASS—Shipping the Cut Blooms—Getting a Name—Wax and Tissue Papers—Tying the Roses in Boxes—Among the Young Plants—*Arthur C. Ruzicka*..... 263

SOCIETY OF AMERICAN FLORISTS:

Opening Session—President's Address..... 265

Secretary's Reports..... 266

Outdoor Plant Exhibit—Illustrated.....266a

Treasurer's Report—Report of Washington Representative—Reports of Committees.....266b

Boston the Next Meeting Place—President's Reception—Wednesday Forenoon Session—Nomination of Officers — Wednesday Afternoon Session — International Flower Show.....266d

Report of Judges—Discussion of President's Address Thursday's Sessions—Election of Officers—Trade Exhibition—The Trip from Boston..... 268

St. Louis Convention Delegates—Ladies S. A. F. Florists' Telegraph Delivery Association—Florists' Hail Association—American Rose Society—American Carnation Society—American Gladiolus Society..... 270

SEED TRADE—Cabbage and Turnip Crop Short—Pea Situation — Beans — Corn — Tomatoes — Peas — California Seed Crop—New Seed Stores.....273-274

WALTER MOTT'S NOTES BY THE WAY..... 274

OF INTEREST TO RETAIL FLORISTS:

New Flower Stores—Steamer Departures..... 276

A Model Flower Store—Illustration..... 278

DURING RECESS—Outing Westchester and Fairfield Horticultural Society—Lenox Horticultural Society.. 278

OBITUARY—Hugh Lee—Francis E. Belcher—Jonathan W. Kerr—Paul Kase..... 279

FLOWER MARKET REPORTS—Boston, Buffalo, Chicago, Cincinnati, Philadelphia, St. Louis..... 281

CLUBS AND SOCIETIES:

Southampton Horticultural Society—Cook County Florists' Association—Nassau County Horticultural Society—Notes 283

MISCELLANEOUS—Catalogues Received..... 270

Cincinnati Notes..... 276

St. Louis Notes—News Notes..... 277

Chicago Notes..... 278

Philadelphia Notes—Personal..... 279

Greenhouses Building or Contemplated..... 289

Patents Granted—Incorporated..... 289

Doing our best

It is a far haul from Minneapolis to Boston and we hope our readers will keep this fact in mind as they peruse our story of the proceedings of the big national society still in session as we go to press, and pardon any seeming errors or omissions which they may detect. Such news as we are enabled to present in this issue is transmitted entirely by telegraph, with many possibilities of mistakes in one or the other respect. Should any incongruities appear we crave the kind indulgence of our readers and next week we shall be able to do better, undoubtedly.

Theodore Wirth

Theodore Wirth, selected by the Society of American Florists as its standard bearer for the year 1914, comes to this high honor and large responsibility one of the best equipped men ever selected for the presidency of the national Society. His splendid work in the development of the Minneapolis park system and his previous achievements in a similar capacity at Hartford, Conn., are well-known and fresh in the minds of our readers. As to his earlier career, we might state briefly that Mr. Wirth was born at Winterthur, Switzerland, in 1863. His first employment after graduating from school was with a leading florist and nursery establishment in Switzerland. From that time until 1888 he filled responsible positions in Zurich, London, St. Albans and Paris, and then came to this country, serving successively as a private gardener at Morristown, N. J., rose grower at So. Orange, and in the park department of New York City under Samuel Parsons, after which he devoted himself to landscape work until in 1896 he was appointed superintendent of the parks of Hartford, then in the process of construction. In 1906 he took charge of the Minneapolis park system. Theodore Wirth is the embodiment of zeal and energy, tireless and determined in whatever he undertakes and knowing no such word as fail. As an executive officer he has the qualities that command respect and make for success. Personally he is a courteous gentleman, sympathetic in temperament and generous by nature. Boston is to be congratulated on having Theodore Wirth at the head of affairs for her convention year.

The S. A. F.

The introductory word when the Society of American Florists was formed was an affirmation of the need for an effective coalition between the various closely related floricultural interests of the country for the common good and a statement of the advantages that would follow such a course. True to first principles, this society has faithfully lived up to its pledge voluntarily made to lift up and carry forward all movements tending to promote the welfare of the craft, and the altruistic spirit of its initial policies has been plainly dominant all through its career. Based on the broad principle of elevating the profession and advancing the standard of American horticulture, distinctly philanthropic in its aims and purposes and democratic in its activities, this organization, although never accepted at its proper value by the great mass of the people whom it sought to benefit, has succeeded with able leadership and the loyalty of a goodly proportion of the more advanced and enterprising men of the craft in making an enviable record of useful accomplishment from the first up to the present time. The bettered social and commercial conditions of the art and the craft to whose interests it stands pledged, as compared with those prevailing at the time the society was launched, are generally recognized, we think, as due in a great measure to its good work and influence, supplemented by the zeal and energy of the local and special organizations which have come into being all over the country as a direct result of its encouragement and example and there can be no question that the mighty progress of horticulture on this continent during the last twenty-five years owes much of its stimulation to the good seed so industriously sown by the S. A. F. and the numerous offspring who have drawn their vitality and inspiration from the parent body. To the S. A. F. the florist already owes much; to the S. A. F. he must still look for support and defence when adverse legislation or other oppression menaces his prosperity. This he should as an individual, take seriously to heart now, and if he has not already done so, see that his name is added to the membership roll of an association whose business it is to befriend him in time of trouble,—a safeguard which is practically indispensable under twentieth century business conditions.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

A Well Attended Convention and the Exhibition a Splendid Success

Boston, Mass., Next Meeting Place

Officers Elected

PRESIDENT—THEODORE WIRTH, Minneapolis, Minn.
VICE-PRESIDENT—PATRICK WELCH, Boston, Mass.
SECRETARY—JOHN YOUNG, New York, N. Y.
TREASURER—WILLIAM F. KASTING, Buffalo, N. Y.

OPENING SESSION.

Two P. M., Tuesday.

President Desmond of the Minneapolis Florist Club called the convention to order and introduced Vice-President Theodore Wirth, whose words of welcome were roundly applauded and who was followed by Mayor Wallace G. Nye. The Mayor eloquently voiced the greeting of the city and awakened much enthusiasm. William F. Gude responded in an equally appropriate vein on behalf of the society.

President Farquhar then read his address, as follows:

THE PRESIDENT'S ADDRESS.

Ladies and Gentlemen, Members of the Society of American Florists and Ornamental Horticulturists:

Never has it fallen to the lot of a president to make his convention address under such favorable conditions as exist in our Society at this our 29th annual meeting.

Since we last met, we have progressed and increased our influence to such a degree, that a review of the year's proceedings might well be devoted to laudation rather than to suggestion or criticism.

We did well in deliberately deciding upon beautiful Minneapolis for our meeting this year. The wisdom of the selection is already manifest; nor did we choose Minneapolis alone—but the Twin Cities, which are one in horticultural spirit, one in effort for a successful convention, and one in welcoming us to their midst. Yonder river does not divide the twins; they are linked beyond its waters.

A Busy Year.

Since our Chicago Convention, the Society has been unusually active. The great success of the New York Flower Show was accomplished only by the untiring work of your officers in co-operation with those of the New York Florists Club and other local organizations. Especially must I commend the zeal and work of Mr. Charles H. Totty.

Meanwhile, our Vice-President, Mr. Theodore Wirth, has been busy with his out-door garden exhibit in connection with this Convention, a feature but once before attempted and then on a comparatively small scale.

Mr. W. F. Gude, our Washington representative, as chairman of the Committee on Tariff and Legislation, has done much to secure satisfactory action on the classification of horticultural imports in the new tariff.

Officers.

Our by-laws wisely provide that several of our committees shall change gradually, as in the case of Executive and National Flower Show Committees. I am opposed to spasmodic changes, and I believe that our State Vice-Presidents, where they have been active in promoting the interests of the Society, might well be re-appointed by incoming presidents, as has been done not infrequently.



PATRICK WELCH
Vice-President-Elect Society of American Florists and Ornamental Horticulturists.

State Vice-Presidents.

A former state vice-president recently asked me, "What besides making a report of trade conditions in his state is there for a state vice-president to do?" I replied that at present the Society did not seem to be making all the use it could make of its state vice-presidents. I think that the annual report, the submission of which is in some instances neglected, is but a small part of the work that officer might do.

I am convinced that great good would result if the vice-president of each state would consider the S. A. F. & O. H. members therein as constituting a society of themselves under his (or her) charge; and if he or she would call these members together once or twice each year, matters affecting their interests could be discussed and acted upon. Then through the Secretary and Executive Committee the full support of the Society could be accorded to the members of any state, when in need of its helpful influence.

Such state meetings might be held in connection with any important flower show or other horticultural meeting in a leading town, under the direction of our state vice-president.

Headquarters in Washington.

Frequently, attention has been called to our obligation, under our charter, to establish a permanent domicile in Washington.

In a few years it will be necessary for us to petition Congress for permission to hold property beyond the present limit of our charter, which is fifty thousand ($50,000.) dollars. We should at once begin to make good our delinquency in having failed up to the present time to establish our office in Washington, and, having done so, we will be in better standing when we ask Congress to permit us to hold property up to ten or twenty times our present limit—a round million would be none too much.

Parcel Post.

The recent raising of the parcels post limit to twenty pounds weight by the Postmaster General, is a step in the right direction. It is to be hoped that soon the horticultural interests will be able to obtain a better rate than the present one of eight cents per pound for their products.

The Executive Board.

The work of the executive board is much more arduous than many members of the Society realize. They have intimate knowledge and insight of the affairs of our organization not possessed by the majority of our members. At times the recommendations of this board which actually controls our doings for fifty-one weeks of the year have not seemed to receive the responsive approbation and support of the Society which their importance would have appeared to justify. I feel that the suggestions of this board should receive more thoughtful consideration.

Congratulation.

In conclusion fellow-members, let me say that notwithstanding the few suggestions I have made, the burden of my message to you this morning is congratulation.

Our Society has grown — grown numerically — grown in financial strength — grown in influence and power as an organization helpful to its members in trade. It has grown as a factor in promoting horticulture and the love of flowers among all classes of our people.

Your officers, your vice-president, your secretary, your treasurer, your executive committee, your National Flower Show committee and your other officers and committees have done their work faithfully and well and for the remarkable physical and material growth of our Society, which their various reports will disclose, there is but one comment—congratulation. And for your wisdom in choosing them, as well as for having so wisely selected this city for our present convention, you, fellow-members, have my heartiest congratulation.

SECRETARY'S REPORT.

Secretary Young then presented his annual report and secretary's financial reports, as follows:

The secretary's financial report will show the affairs of the Society to be in a very healthy condition. Undoubtedly the vote of the Chicago convention to meet in Minneapolis was a very wise one. The florists' interests are increasing rapidly in the West and Northwest, and the meeting in this city will give those interested in the florists' trade an opportunity of becoming members, visiting the Convention, and to see and learn what the Society of American Florists and Ornamental Horticulturists is doing for them. The number of new members taken in at this time is very gratifying. While it is to be regretted that the receipts from the trade exhibition are not as large as they were at the last convention—the receipts this year are a little less than $4,000—still, the exhibition is very comprehensive. There are over sixty firms represented and as the expenses have been kept down wherever possible there will be a substantial balance to turn into the treasury. The outdoor planting exhibition, which was under the able supervision of Vice-President Theo. Wirth, speaks for itself. It is many years since anything of the kind has been attempted by our Society and the results obtained are very satisfactory and have been the cause of much favorable comment. While this outdoor planting exhibition did not receive the support it deserved, still there are thirty-two leading firms represented. It is understood that these outdoor planting exhibitions will be continued in the cities where future Conventions are held, and should be the source of some revenue to the Society in addition to their educational features.

Membership.

From January 1, 1913, to August 9, 1913, there has been added to the membership list the names of 125 annual members and 25 life members. On August 9, 1913, the list of those in good standing was as follows:

Pioneer members		28
Life members		352
Annual members		923
Total		1303
In addition to this there is due from those owing the		
1911 assessment	66	
1911-12 assessment	129	
1913 assessment	311	
		506
Making a total membership of		1810

27 of the above are active lady members.

So it can be seen that the membership of the Society is gradually increasing. Many of those owing back dues have paid up since this report was made up, and several will pay during the Convention week. Many new names have been added and I have every confidence that at the end of the year 1913 this Society will have a list of 2,000 members in good standing. The trade at large, through the wide publicity given the Society by the trade press, and through other channels, are awakening and see the benefits of joining the Society, and it should be only a short time before this Society should have a list of members such as the organizers had hoped and looked forward to.

The following have sent me in one or more names for membership since the last Convention:

Florists Telegraph Delivery 26, P. Welch 2, S. S. Pennock 1, Chas. U. Fohn 2, W. F. Kasting 3, David Rust 1, C. F. Rice 4, J. K. M. L. Farquhar 1, H. J. Fletcher 1, Theo. Wirth 3, C. N. Ruedlinger 5, H. E. Philpott 5, E. C. Newberry 1, A. T. De La Mare 1, M. Barker 1, E. P. Holm 7, J. I. Wilson 1.

Members deceased since the last Convention:

A. Baldocchi, September 4, 1912; George J. Edwards, September 17, 1912; F. P. Baum, November 12, 1912; J. T. Temple, January 4, 1913; Charles H. Barrett, February 6, 1913; Wm. Blacker, February 21, 1913; P. Einsmann, March 13, 1913; John A. Payne, March 31, 1913; H. P. Campbell, April 1, 1913; Wm. B. Sands, April 8, 1913; G. L. Grant, May 8, 1913; Julius Roehrs, July 20, 1913.

Plant Registration.

October 10, 1912. Rose — Mrs. Chas. Russell, by Waban Rose Conservatories, Natick.

October 15, 1912. Cannas—Blanch Wintzer, Loveliness, Jennie Walls Fahnline, Panama, Lorraine, Maid of Orleans, Sam Trelease and Wonderful, by Conard & Jones, West Grove, Pa.

October 20, 1912. Sweet Peas—Camilla, Excelsior, Why Not, Dolansky Spencer Mona, Claudia, Salma, Vera, Eola, Smalley Spencer, Mrs. Sim Spencer, Bohemian, Flora, Venus, Dora, Diana, Velma, Orella, Una, Olivia, Goldiana, Laura, Ina and Elvira, by A. C. Zvolanek, Lompoc, Cal.

January 31, 1913. Geraniums—Dr. Richard Behrend, Jack London, Julius Eberius, Dr. Lincoln Cothran, Judge Lindsey, Fresno, H. Plath, Anna Eberius, Palo Alto, Fire Ball, Los, Altos, Florence Metzner, Mrs. Edward Stock, La Poloma, Tamalpais, J. Stitt Wilson, Ramona, Fire King, Sacramento, Louisa Tetrazzini, Mt. Shasta, Rosea, Tacoma, Hawaii, Mary Garden, Mayor Ralph, Governor Johnson, Gifford Pinchot, Gertrude Atherton, Richard Diener, Mt. Hamilton, Alviso, Sunnyvale, Snow Bird, Gilroy, Tivoli, White Beauty, Billie Burke and Fritzi Scheff, by Richard Diener & Co., Mt. View, Cal.

January 31, 1913. Cypripedium—Laura Mitchell Kimball, by Mrs. Wm. G. Kimball, Rochester, N. Y.

February 15, 1913. Swee Peas—Ogata, Skyair, Vera, Cardinal, Golden West, Orange Nora, Norma, Pink Nora, Nora, Morning Star and Goldiana, by A. C. Zvolanek, Lompoc, Cal.

March 10, 1913. Geranium—American Beauty, by John Bauscher, Freeport, Ill.

April 25, 1913. Aster—Sawyer-Astermum, by Albert Sawyer, Forest Park, Ill.

May 10, 1913. Geranium—Maryland, by R. Vincent, Jr., & Sons Co., White Marsh, Md.

Secretary's Financial Report, Year Ending December 31, 1912.

RECEIPTS.

Fees and dues	$4,312.00	
Life membership fees (11)	1,025.00	
Trade Exhibition, 1912, Convention	6,925.80	
One-half gate receipts 1912 Flower Show	486.75	
Exchange included with remittances	.60	
Trade Exhibit, 1911	112.50	
Interest	918.21	
		$13,780.86

PAYMENTS.

Paid Wm. F. Kasting, Treasurer, General Fund	$11,725.15	
Permanent Fund	2,055.71	
		$13,780.86

Secretary's Financial Report, January 1 to August 9, 1913.

RECEIPTS.

Dues	$2,643.00
Fees and Dues, new members (125)	625.00
Additional Fees and Dues	5.00
Life Memberships (23)	575.00
Registration fee, Orchid "Laura S. Kimball"	5.00
Returned by Chas. H. Totty, Chairman National Flower Show Committee	100.00
Received from National Flower Show Committee, account National Flower Show, York, April, 1913	1,500.72

INTEREST.

Interest	$692.37
Account Trade Exhibition and Outdoor Planting Exhibition	2,227.80
Total	$8,373.89

PAYMENTS

Wm. F. Kasting, Treasurer,		
General Fund	$4,850.00	
Permanent Fund	1,942.00	
Special Fund	1,500.72	
Cash on hand	981.17	
		8,373.89
Orders drawn on the Treasury from No. 1 to 86 in payment of 1913 bills		4,291.85

OUTDOOR PLANT EXHIBIT AT MINNEAPOLIS.



The accompanying illustration gives an excellent idea of the appearance of the grounds where the outdoor exhibits are placed at Minneapolis. The terrace directly in front of the Armory bears the inscription, "Welcome Society of American Florists and Ornamental Horticulturists," and flanking this are many groups that do not appear in the picture. Local firms have prominent beds in which their name appears in bright foliage. The lily pond seen in the centre of the picture contains the Dreer aquatic exhibit and is a beautiful feature. There are many groups of cannas, among them many new and improved varieties. Holm & Olson have taken up the entire length along the boulevard for a display of ornamental shrubbery. Geraniums from R. Vincent, Jr. & Co. make a brilliant show and there is no end of gladioli, petunias and other bright denizens of the summer garden. A more complete description of this novel exhibition feature will be forthcoming next week. The names of the various exhibitors we have already published.

Trade Exhibition Awards.

In the Trade Section of the National Flower Show, New York, April 5-12, 1913, a Certificate of Merit was awarded to Henry F. Michell Co., for Geranium "Helen Michell," Honorable Mention to the same firm for New Hybrid Freesias. Honorable Mention to Joseph G. Neidinger for a new device for showing violets, pansies, sweet peas and all other short-stemmed flowers. Highly Commended to Hontsch & Co. for their exhibit of greenhouse boilers. Highly Commended to Kroeschell Brothers Co., for improved greenhouse boiler. Honorable Mention to the King Construction Co. for improved flat-rafter greenhouse. Highly Commended to same firm for new Iron Eave Plate for greenhouses. Highly Commended to same firm for superior arrangement of drip pan and improved shape of eave throwing water away from side of the house. Honorable Mention to Schloss Brothers for novelties exhibited in the florists' supply line. Certificate of Merit to Coldwell Lawn Mower Co. for their exhibit of demountable and interchangeable lawn mowers. Silver Medal to J. M. Thorburn Co. for general display. Silver Medal to W. E. Marshall Co. for general display. Certificate of Merit to Max Schling for excellence of floral art, shown in his exhibit in trade section. National Flower Show Gold Medal to Peter Henderson & Co. for general display. Silver Medal and Certificate of Merit to Mt. Desert Nurseries for display of astilbes and spiraeas.

The other awards will appear in the report of the Chairman of the National Flower Show Committee.

Other Medals.

Silver Medal awarded through the Massachusetts Horticultural Society, November 7, 1912, to George Melvin, South Framingham, Mass., for Solanum Capsicastrum, var. Melvinii. Silver Medal awarded through the Horticultural Society of Chicago, April 1, 1913, to Fritz Bahr, for display of specimen flowering plants. Bronze Medal awarded through the Horticultural Society of Chicago, April 1, 1913, to C. W. Johnson for display of specimen flowering plants.

W. F. Gude next read reports as Washington representative, on W. R. Smith memorial, on Hartford rose garden and as chairman on tariff committee.

Report of Washington Representative S. A. F. and O. H.

The past year has been a busy one for your representative in the National Capital, particularly as to tariff matters affecting the members of our organization. I have tried to keep constantly in touch with what was going on in that line, and a full report of what has been accomplished will be made by our tariff committee at this session. By this time, I had hoped we would be able to report a successful experimental rose garden in Washington under the direction of the

TREASURER'S REPORT.

Treasurer Kasting then read his reports, as follows:

January 15th, 1912, to January 1st, 1913.

Jan. 15, 1912.	Balance in Permanent Fund	$11,937.86	
	Receipts to January 1, 1913	2,055.71	
	Balance in Permanent Fund January 1, 1913		$13,993.57
Jan. 15, 1912.	Balance in General Fund	$9,308.07	
	Receipts to January 1, 1913	11,725.15	
		$21,033.22	
	Disbursements to January 1, 1913	8,904.21	
	Balance in General Fund January 1, 1913		12,129.01
	Total Balance January 1, 1913		$26,122.58

INVESTED AS FOLLOWS:

Permanent Fund.

Dunkelberg Bond & Mortgage, Fort Wayne, Ind	$6,000.00	
City & Suburban Realty Co. Bond & M., Fort Wayne, Ind	1,500.00	
Germania Savings Bank, Pittsburgh, Pa	670.76	
American Savings Bank, Buffalo, N. Y	3,528.25	
Peoples Bank, Buffalo, N. Y	2,099.11	
		$13,798.12

General Fund.

American Savings Bank, Buffalo, N. Y	$4,708.67	
Peoples Bank (Savings Account), Buffalo, N. Y	5,080.30	
Peoples Bank (Checking Account), Buffalo, N Y	2,535.49	
		12,324.46
		$26,122.58

Bond and Mortgage at 5% interest.
Pittsburgh and Buffalo Savings Banks at 4% interest.
Peoples Bank on Savings Account at 4% interest.
Peoples Bank on Savings Account at 3% interest on quarterly balances.

Respectfully submitted,

(Signed) WM. F. KASTING, Treasurer.

TREASURER'S SEMI-ANNUAL REPORT.

January 1st, 1913, to August 1st, 1913.

Jan. 1, 1913.	Balance in Permanent Fund	$13,993.57	
	Receipts to August 1, 1913	1,142.37	
	Balance in Permanent Fund August 1, 1913		$15,135.94
Jan. 1, 1913.	Balance in General Fund	$12,129.01	
	Receipts to August 1, 1913	3,250.00	
		$15,379.01	
	Disbursements, August 1, 1913	4,271.05	
	Balance in General Fund August 1, 1913		11,107.96
	From National Flower Show, New York		1,500.72
	Total Balance August 1, 1913		$27,744.62

INVESTED AS FOLLOWS:

Permanent Fund.

Dunkelberg Bond and Mortgage, Fort Wayne, Ind	$6,000.00	
City & Suburban Realty Co. Bond & M., Fort Wayne, Ind	1,500.00	
Germania Savings Bank, Pittsburgh, Pa	684.16	
American Savings Bank, Buffalo, N. Y	3,692.97	
Peoples Bank, Buffalo, N. Y	3,258.81	
		$15,135.94

General Fund.

American Savings Bank, Buffalo, N. Y	$4,708.67	
German American Bank, Buffalo, N. Y	2,747.20	
Peoples Bank, General Fund, Savings Account	3,060.30	
Peoples Bank, General Fund, Checking Account	602.79	
		11,118.96
M. & T. Bank, Buffalo, N. Y., Special Fund		1,500.72
		$27,755.62
Less checks out: No. 273, $3.00; No. 276, $8.00		11.00
		$27,744.62

Bond and Mortgage at 5% interest.
Pittsburgh and Buffalo Savings Banks at 4% interest.
Peoples Bank, Checking Account, 3% interest on quarterly balances.

United States Department of Agriculture. However, the official legal machinery necessary to put this project in motion has been working slowly, but we indulge the hope that the papers will receive the signature of the Secretary of Agriculture in a very short time and the garden will be a properly established factor.

Sentiment is being aroused towards securing from Congress suitable legislation in reference to the Wm. R. Smith Memorial, and we hope in the near future to secure the assistance needed towards its erection.

It is a pleasure to report that the year has been a prolific and prosperous one in and about the capital in our calling. Crops and business have been good, and the florists generally have had a prosperous twelve-month.

Report of the Committee on Smith Memorial.

Your committee, appointed at the Convention held August, 1912, in Chicago, has been at work on the preliminary arrangements, but did not feel at liberty to proceed until after interviews had been arranged with the Government officials, Mr. Andrew Carnegie, and the trustees of the library left by Mr. Smith.

Consideration of what type of memorial would be best suited to commemorate our late friend for all time to come has not been taken up as yet. In an interview this spring between your chairman and Mr. Carnegie, the latter expressed himself as very much interested in the project. He did not wish to take the initiative, however, and asked your chairman to see first what the florists of the United States would do. These being heard from he desired to know the result, as he did not want the memorial erected without having the privilege of contributing towards the expense of its construction.

In the late spring of 1913, your committee sent a letter to all secretaries of our kindred organizations (some 60 in number of record) in the United States. A number of replies received stated that the matter would be taken up individually or collectively by members from many cities. Encouraging reports have come from other sources, and while no money has been asked for as yet, $145 have been received and deposited in bank with the Munsey Trust Company of Washington, D. C.; four per cent. interest is being paid on this deposit.

The Committee proposes to start an active campaign in the early fall for funds, giving all persons interested in the memorial an opportunity to subscribe.

Report of Committee on Experimental Rose Gardens.

The committee appointed in March 1912, to secure permission from the United States Department of Agriculture to establish an experimental rose garden on the Arlington Farms, under the direction of horticultural experts of the United States Government, has been actively at work. Official application, as per following letter, has been filed by the committees of the Rose Society and the S. A. F. and O. H. In addition, the committee has had a number of interviews with the Department officials. It had been hoped that before this report was submitted the garden would have been established, but owing to the change of administration some delay has been experienced. The committee feels, however, that ere we meet in convention again we will have a good report from a rose garden actually established and in operation at Arlington Farms, Va., where roses from all sections may be tested officially.

May 29, 1913.

Hon. David F. Houston, Secretary of Agriculture, Washington, D. C.

Dear Sir: The rose growers of America, as represented by their respective societies, feel the desirability of having at some accessible point as large a collection of rose species and varieties as will thrive at any one place. The advantages of such a collection would be the opportunity for study and comparison by those most interested, including growers and hybridizers, and the educational value to the general public.

Feeling that the value of such a collection is not confined to commercial rose growers: that such a collection could be well fostered and maintained under the present organization and equipment of your department, and that the climate of Washington is favorable to the growth of a large number of varieties, we respectfully ask that a rose garden be established on the Arlington Farm under the care and supervision of the government

In order to cooperate as far as possible in establishing and maintaining such a garden, these societies will supply free of cost to the government, stock true to name, and provide funds for the labelling of the collection, the government to supply the necessary land and labor for the cultivation and care of the collection

Very respectfully,

WM. F. GUDE.

Washington Representative S. A. F. and O. H. and Chairman Special Committee.

VISIT

POEHLMANN BROS. CO'S

GREENHOUSES

THE LARGEST AND MOST UP-TO-DATE GREENHOUSE ESTABLISHMENT IN AMERICA



The above cut shows Plant A, and a part of Plant C. Plant B is one-half mile north. This cut gives but a faint idea of what is to be seen in the way of Modern Construction, Equipment, and Modern Methods of Culture

OUR PLANT DEPARTMENT

is about one year old and consists of 100,000 sq. ft. of glass, which will be doubled the coming season. This is devoted to **POT PLANTS,** such as **Palms, Ferns, Pandanus, Araucarias, Dracaenas,** and other **Decorative** stock as well as all the **Blooming Plants for Christmas and Easter.**

WE MAKE SPECIALTY OF GRAFTED ROSE STOCK

Using nothing but the best **English Manetti Stock.** Have a fine lot of these as well as own root Roses, Chrysanthemums and other **Stock for growing on** ready for **immediate delivery. Young Plants and Rooted Cuttings** of **Carnations, Roses** and **Mums** will continue to be a feature here and will be grown by the **Million** next year in all the **Standard Commercial Varieties.**

CUT FLOWERS

Of **Beauties, Tea Roses, Orchids, Sweet Peas, Valley, Lilies** and in fact everything in season and in large quantities will be always in stock.

FLORISTS SUPPLIES

Have also been added to our stock and we furnish **everything** the market affords.

Take Chicago, Milwaukee & St. P. Ry. from Union Depot, Chicago, 14 miles N. W. to Morton Grove, Ill.

CALL AT OUR CITY STORE

POEHLMANN BROS. CO.

72 and 74 E. Randolph Street - - - CHICAGO, ILL.

Report of Tariff and Legislation Committee.

As Chairman of the Tariff Committee, it gives me much pleasure to report to this body what has been accomplished by our committee.

The tariff is always such a debatable question that no two florists, no two Representatives, and no two Senators, ever agree as to what the duty on a certain item should be. So when we tried first to feel the pulse of the trade, we soon found that it would be inadvisable to work toward making duty changes, but as the former tariff acts have contained so many absurdities and incorrect classifications we decided to concentrate our energies toward having the rates clearly defined so that one florist would not be required to pay twenty-five per cent. duty while another florist in a different state got the same stock at fifteen per cent. or free of duty. While it is necessary that the import duties upon florist and nursery stock be large enough to furnish the proper amount of protection to American growers, it is of still greater importance that the rate of duty be clearly defined—and the same at all ports of entry.

Early in April, the Committee sent out the following letter, which was published in all the trade papers. Strange to say, there was hardly anyone heard from throughout the length and breadth of the United States, which led your committee to believe that—on the whole—the florists must be fairly well satisfied with conditions as they were.

April 18, 1913.

To all florists and horticulturists who have any suggestions to make as to what legislation if any they would like in the present tariff bill, now before Congress. They should send in suggestions at once if they have not already done so, to the Chairman of the Tariff Committee of the S. A. F. and O. H. Mr. Wm. F. Gude, 1214 F St., Washington, D. C., who is anxious and willing to do what he can to further the interests of the florists and horticulturists and members of the hundred organizations, but the committee are at a loss what action to take until they can hear from the parties who would like the tariff raised or lowered on certain goods, as the case may be.

The tariff bill as reported out of the Ways and Means Committee was full of absurdities, ambiguities and incorrect classifications; had it become a law as it then read, it would have involved the same amount of fraud, vexatious uncertainty, and legal expense as in former tariffs. The same stock was dutiable at 25 per cent. and 15 per cent.; other stock was dutiable at $1 per thousand, also free. Hyacinth bulbs were rated as "clumps." Greenhouse stock was dutiable at 25 per cent. in Section 215, and at 15 per cent. in Section 216, while evergreen seedlings were rated free of duty, but no definition was made as to what evergreen seedlings really were.

To correct these absurdities and errors, we introduced in Congress eight amendments to the tariff bill, and while our friends were telling us we could not get them through, we had them passed by the Congressional Committee in charge of Schedule G. When the corrected bill was printed, we found that four of our amendments had been mutilated in Congress, but we later had those four amendments corrected in the Senate Committee, and the bill, containing our eight amendments, is likely to become a law in the very near future.

The various amendments were here read. They have already been published in full in HORTICULTURE.

These amendments correct and simplify the tariff immensely as applied to horticultural imports. It will make it much easier for the Customs officials to detect and correct fraudulent entries; it should avoid expense to honest importers now that the rates of duty are clearly defined, and it will prevent largely the confusion and abuses which have arisen under former tariffs, owing to incorrect and varying Treasury decisions handed down at different ports of entry on one item. These amendments do not change the rates of duty on proposed tariffs in any way. To have recommended them would have meant the defeat of our important demands—namely, a tariff free from errors and ambiguities. The benefits of these changes are obvious to every florist, nurseryman and seedsman in the United States who either directly or indirectly handles imported stock.

Now I am going to make one recommendation, but before I do so let me explain that the tariff is made up by our legislators to comply with what they consider the country needs. The first report of changes comes from the Ways and Means Committee, so that unless corrections are made in that committee they must be in the form of amendments, and to be effective must be carried by a majority in the House and Senate. Our legislators consider that plants, nursery stock, bulbs and seeds are in the same general class. They are mixed together in the same schedules so that any recommendations of changes or corrections must be presented or endorsed jointly by florists, nurserymen and seedsmen. Owing to the lack of cooperation between the three organizations, I feel sure that had it not been for the active support we got from New York importers and Custom House officials, we never would have gotten one amendment through the House or Senate.

I, therefore, recommend that, as far as practicable, your Tariff Committee includes one man in the import business, one man resident in Washington, and that all members be in active working touch with nurserymen, seedsmen and others interested, so that only men will be in this committee that can intelligently work and publicly speak on the entire schedule—which includes all horticultural imports.

Thanks are due James McHutchison of New York City, a member of this committee, and without whose material assistance little, if anything, could have been done. Representative Taylor, and Assistant Secretary of Agriculture, B. T. Galloway, are entitled to our thanks also.

Boston the Next Meeting Place.

President Farquhar then presented a letter from Governor Foss of Massachusetts promising a hearty welcome and special entertainment if the society would come to Boston in 1914. J. B. Shea followed with a similarly cordial letter from Mayor Fitzgerald of Boston adding his own endorsement of the invitation. Letters were also presented from the Boston Chamber of Commerce and further invitations were voiced by Secretary Rich in behalf of the Massachusetts Horticultural Society, Eber Holmes for the Gardeners' and Florists' Club of Boston, P. Welch and others, after which Boston was unanimously selected as the place for the next convention.

THE PRESIDENT'S RECEPTION.

The president's reception on Tuesday was a delightfully pleasant affair, with music and dancing and social companionship. Never has the society enjoyed a more pleasurable event. East and West, North and South, were brought together in happy fraternal fellowship, and business and politics were all forgotten in the inspiration of a most happy reunion.

WEDNESDAY FORENOON SESSION.

Wednesday forenoon session started off with commendable promptness. Secretary Young read the report of the committee on the relief of flood sufferers, expressing grateful acknowledgment of generous response.

A telegram was received from the Pacific Coast Horticultural Society, renewing their former invitation to meet at San Francisco two years hence.

Nomination of Officers.

Nomination of officers resulted in the unanimous naming of Theodore Wirth for president; Patrick Welch, vice-president; John Young, secretary; W. F. Kasting, treasurer, amid much enthusiasm and there being no contest over any office unanimous election on Thursday was assured.

The report of the publicity committee was then presented by Wallace R. Pierson.

Irwin Berterman asked on behalf of the Florists' Telegraph Delivery Association some special recognition by the S. A. F., stating that it had this year brought some forty new members into the national society. The request was favorably received.

WEDNESDAY AFTERNOON SESSION.

Wednesday afternoon session was devoted largely to National Flower Show discussion.

International Flower Show.

Charles H. Totty, who made a full report on the show at New York last spring, was given a most eulogistic introduction by President Farquhar and frequent demonstrations of approval and enthusiasm were made by the members.

Treasurer's Report.

RECEIPTS.

International Exposition Co. (Premiums)	$7,655.00
Contributions and Special Premiums	2,693.00
International Exposition Co. (Division of Profits)	750.00
Guarantee Fund	3,877.50
Total	$14,955.50

DISBURSEMENTS.

Premiums, including Special Premiums, not competed for	$8,805.00
Miscellaneous expenses, Lectures, etc.	324.53
Return of Guarantee Fund	3,877.50
Dividend (10%) on Guarantee Fund	387.75
Final amount sent to W. F. Kasting	1,560.72
Total	$14,955.50

Respectfully submitted,
Walter F. Sheridan, Treasurer,
LOCAL GOVERNING BOARD.
Charles H. Totty, Chairman.
John Young, Secretary.

ACACIAS

Twenty-Five Varieties

A rare opportunity to form a collection at reasonable cost.

Write for Prices

THOMAS ROLAND

Nahant, Mass.

PEONIES

15 fine named Peonies for $2.50. A chance to obtain a fine collection at half price, comprising such varieties as Festiva Maxima, Felix Crousse, Delachei, Lady L. Bramwell, Couronne d'Or, Prolifera Tricolor, Louis Van Houtte, Rubra Superba and various other fine sorts all labeled true to name. With any order for $5.00 of my selection embracing the above I will give one plant of Baroness Schroeder, free, absolutely true to name. Send for catalogue.

W. L. GUMM

PEONY SPECIALIST

REMINGTON, IND.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721
NEW YORK CITY

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LILIUM HARRISII

For Immediate Delivery

We offer a selected stock of the original true Harrisii for early forcing. The stock was grown from the original true type, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. The crop this season is much shorter than usual, but we are still in position to supply a nice lot of selected stock

6 to 7 inch bulbs, 350 to the case, $5.50 per 100; $45.00 per 1000
7 to 9 inch bulbs, 200 to the case, $9.00 per 100; $82.50 per 1000

Full case lots at thousand rates.

NOW READY

PAPER WHITE NARCISSUS: 13 c-m bulbs, $1.25 per 100, $9.00 per 1000; 14 c-m bulbs, $1.50 per 100, $11.00 per 1000

WHITE ROMAN HYACINTHS: Extra quality bulbs, 11-15 c-m, 2000 to the case, $3.00 per 100, $28.00 per 1000

LILIUM GIGANTEUM, Cold Storage: 7-9 inch, case of 300 bulbs, $19.50 per case.

FREESIAS, Purity: $2.00 per 100, $15.00 per 1000.

FREESIAS, French-grown: Mammoth bulbs, $1.50 per 100, $10.00 per 1000.

CALLAS: Extra size bulbs, 1¾ to 2 in. in diameter, $10.00 per 100; mammoth bulbs, 2 to 2½ in. in diameter, $12.00 per 100.

FINE FERNS FOR SUMMER DECORATION

We have a fine stock of the following varieties of Nephrolepis:

ELEGANTISSIMA: 6-in pots, 50c. each; 8-in. pots, $1.00 each

HARRISII form of Bostoniensis—the best of all the plain-leaved type; 8-in. pots, $1.00 each; very large specimens in 10-in. pots, $3.00 and $4.00 each.

WINTER-FLOWERING ROSES

White Killarney, Pink Killarney, Richmond, Lady Hillingdon and Killarney Queen. We have a small surplus over and above our own requirements of the above-named varieties. Strong grafted plants in 3½ and 4-in. pots, which we can supply as long as unsold.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON NEW YORK

ORCHIDS

We collect, import, grow and sell ORCHIDS exclusively. Send us your inquiries for anything in that line, and ask for

Our Special List No. 51 of Imported ORCHIDS

Our catalogue of established Orchids is yours for the asking.

LAGER & HURRELL

SUMMIT, N. J.

CARNATIONS FIELD GROWN PLANTS

A-1 Healthy Plants

White Enchantress, Enchantress, Rose Pink Enchantress, White Perfection, Beacon, Dorothy Gordon and other Varieties, $7.00 per 100, $60.00 per 1,000. Cash with order.

Special price on large orders.

REYNOLDS & MACKAY, H. R. PHONE, Brunswick Road, Troy, N.Y.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.

369 RIVER ST., CHICAGO.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CHRISTMAS PEPPERS

Celestial and all other Peppers. Strong plants with Fruit from 4½ in. pots, $10.00 per 100

PRIMROSES—OBCONICA AND CHINESE

The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

[illegible] at 1000 rates. Cash with order.

FRANK OECHSLIN

4911 Quincy St., Chicago, Ill.

FOR SALE

COLLECTION OF STOVE PLANTS

Consisting of Large Specimen Plants Phyllotaenium Lindenii, Alpina Sanderae, Anthuricum crystallinum, Marantas, Crotons, etc.

Address T. W., care Horticulture

Messrs. Traendly, J. Manda, Bunyard and Kasting made fine addresses and an invitation by A. Farenwald to hold the next show in Philadelphia was referred to the National Flower Show Committee with full power to act.

Report of Judges.

Reports of the judges on the trade exhibition classes C, D, E and G were then presented.

Certificates of merit were awarded to E. Allen Peirce for waterproof flower pot, H. Bayersdorfer & Co. for tropical South American humming bird, Lion & Co. for Brazilian humming bird.

Honorable mention to F. R. Pierson Co. for nephrolepis Elmsfordi and Carnation Support Co. for carnation support.

The following were highly commended:

Robert Craig Co. for nephrolepis robusta, H. Bayersdorfer & Co. for imported prepared burrs, M. Rice Co. for blooming bromus grass and red cattails, Schloss Bros. for flower velvet ribbon and velvet corsage tie, H. G. Dreyer & Co. for adjustable candelabra and corner ladder, Wertheimer Bros. for silver lattice ribbon, antitarnish silver gauze and iridescent ribbon, Peters & Reed Pottery Co. for decorative pottery.

First prize for dinner table decoration was awarded to Yerxa Bros. and second to L. S. Donaldson Co., both of Minneapolis.

Discussion of President's Address.

Discussion of the president's address resulted in a vote of approval of the plan to increase interest and efficiency of the state vice-presidents and to make the outdoor garden exhibition a part of all future conventions when possible and also to give the Washington representative a voice in executive board meetings.

Theodore Wirth's lecture Wednesday evening was very fine but had a rather slim attendance on account of sultry weather.

THURSDAY MORNING'S SESSION.

Election of Officers.

At Thursday morning's session an unanimous ballot was cast for the candidates as nominated on Wednesday and they were declared elected, the announcement being received with applause.

The successful candidates made appreciative remarks and promise for earnest work.

Adolph Farenwald read his paper on "Affiliation," and after discussing the recommendations therein, were referred to the Executive Board to consider and report on Friday morning.

Benjamin Hammond then read his report on "School Gardens."

TRADE EXHIBITION.

This feature of the annual convention now grown to gigantic proportions was a splendid success. Plants were of excellent quality, exhibitors in this section being as follows:

Robert Craig Co., splendid line of rich greenhouse material.

H. A. Dreer, grand collection of trade plants.

F. R. Pierson Co., extensive collection of elegant ferns, also bulbs.

Poehlmann Brothers Co., big display well-grown florists plants.

J. A. Peterson, group ferns and stately dracaenas.

Lemuel Ball estate, palms.

C. C. Pollworth, general collection florists' stock.

Knight & Struck, heathers.

J. F. Wilcox & Sons, ferns.

W. A. Manda, handsome plant novelties.

Holton & Hunkel Co., palms, crotons, etc.

Charles D. Ball, decorative plants.

Jos. Heacock, specimen palms.

Storrs & Harrison, miscellaneous plants.

Gladioli were the features of the cut flower department. These were staged in great numbers and brilliant array by John Lewis Childs, Arthur Cowee, L. L. May & Co., Bidwell & Fobes, Vaughan's Seed Store, and E. E. Stewart.

Bulbs were shown in large variety and excellent quality by W. W. Barnard Co., A. Henderson & Co., R. & J. Farquhar & Co., H. F. Michell Co., F. R. Pierson, Vaughan & Co., C. Keur & Sons.

Pot grown lilacs came from Jackson & Perkins Co.

The florists' supply section was a very brilliant and busy department. Pennock-Meehan's array of ribbons and dainty accessories was a model of pure floral colors.

H. Bayersdorfer & Co.'s mammoth exhibit was a prime centre of attraction, and included many pleasing novelties. M. Rice Co. also had a very extensive lay-out. Others in this section were Wertheimer Bros., Schloss Bros., Lion & Co., C. C. Pollworth Co., and Raedlein Basket Co.

Flower boxes were shown by Hummel & Downing, A. A. Arnold Co., and Sefton Mfg. Co.

The greenhouse construction concerns were splendidly represented. Lord & Burnham Co. had the central position, and their exhibit of greenhouse sections was easily the central feature. Hitchings & Co. had a fine display of photographs of greenhouses erected by them. The J. C. Moninger Co. had a section of their greenhouse construction and fittings. The Advance Co. had an interesting exhibit of ventilating apparatus. Taylor Steam Specialty Co. showed syphon heat circulators. Wright's Employees' Alarm Co., Minnesota Waterproof and Calking Co., Travis Rocking Grate Co., Coldwell Lawn Mower Co., all had interesting exhibits of their respective specialties.

In the flower pot department, there were large exhibits from the Detroit Flower Pot Co., Peters & Reed Pottery Co., and Ionia Pottery Co., Pierce Brothers of Waltham, Mass., showed new waterproof paper flower pot; and O. F. Zurn & Co. showed shaderine.

A very complete line of special insecticides was displayed by Aphine Mfg. Co.

One of the most potent attractions was the exhibit of Revere Rubber Co.

An autochrome machine in operation displayed beautiful slides of over 100 varieties of Vincent & Sons geraniums.

The American Importing Co. showed the new florists' gold letters.

A fine line of plant stands was displayed by H. C. Dreyer & Sons Co., and carnation supports by The Carnation Support Co.

Professor H. H. Whetzel showed an interesting and instructive series of preserved plant foliage, etc., showing the ravages of various plant diseases.

THE TRIP FROM BOSTON.

The party starting from Boston for Minneapolis, on Friday night, was not large, but a very classy one, comprising, as it did, the president of the S. A. F., the secretary of the Massachusetts Horticultural Society, the president of the American Association of Park Superintendents and deputy park commissioner of Boston, and several other dignitaries of past or present note, and a number of ladies. There were just enough to comfortably fill one Pullman car and the passenger agent of the Grand Trunk R. R. accompanied them as far as London. On going to his office Friday night before starting for the R. R. station, President Farquhar was greeted by a young sparrow on his doorstep. The fledgling was at once adopted as a mascot and taken along on the train as far as Nashua, where it was liberated to make its home among the romantic wilds of New Hampshire. A number of wistful friends came to the station to see the party off and the start was made under very auspicious conditions. Arriving at Montreal, Saturday morning, they were met by a delegation of the Montreal florists and the party was augmented by several additions. After breakfast at the Windsor Hotel, given by the Horticultural Club of Boston, the visitors became the guests of the Montreal Florists' Club. A flower bedecked trolley car was in commission for the whole day and all sections of the city were visited, including a trip to the top of Mt. Royal where luncheon was served and where the wonderful display of bedding plants by Park Ranger John Henderson was greatly enjoyed, and brief congratulatory speeches were made by President Farquhar, P. Welch, Secretary Rich of the Mass. Horticultural Society, and James McKenna of Montreal. Cote de Neiges and Lachine were visited in the afternoon and at the latter place the party boarded the big steamer for the world renowned trip through the Lachine Rapids. Niagara Falls were reached Sunday noon, where a four-hours' stay was had, and on Monday morning Chicago hove in sight.

Monday was spent in visiting parks and other places of interest in Chicago.

Special train made up of sleepers from Boston, New York and Chicago completed the trip comfortably without one untoward incident.

ST. LOUIS CONVENTION DELEGATES.

The following well known florists left on the steamer Quincy, for Minneapolis on Thursday, August 14th, to attend the S. A. F. Convention. Mr. and Mrs. C. A. Kuehn and daughter, Mr. and Mrs. J. F. Ammann. Mr. and Mrs. E. W. Guy, Mr. and Mrs. F. W. Brunig, Mr. and Mrs. F. C. Weber, Mr. and Mrs. Geo. H. Angermuller, Mr. and Mrs. W. C. Smith, Mr. and Mrs. F. X. Gerly, J. J. Windler, F. W. Wind

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouillere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Moulliere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

ler and their mother, Miss T. Meinhardt, O. G. Koenig, Edwin Denker. Those who left later went by rail. They were: C. C. Sanders, W. C. Young, Fred Meinhardt and F. Robinson.

LADIES' SOCIETY OF AMERICAN FLORISTS.

The Ladies' S. A. F. held their annual meeting on Wednesday. The election of officers resulted as follows: President, Mrs. C. E. Critchell, Cincinnati; first vice-president, Mrs. M. A. Patten; second vice-president, Mrs. W. F. Gude; secretary, Mrs. C. H. Maynard; treasurer, Mrs. A. M. Herr. Secretary's report showed an addition of thirty-seven new members, making a total of two hundred and seventy-three. On Thursday evening the members made an elegant present to Mrs. Traendly.

FLORISTS' TELEGRAPH DELIVERY ASSOCIATION.

The Florists' Telegraph Delivery Association also held their meeting Wednesday afternoon. The usual addresses and reports were made by President Bertermann, Secretary Pochelon and Treasurer Rock. Addresses on the work of the association were made by Phil Breitmeyer and George Asmus. Thirty-five retailers were present.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

The report of Secretary John G. Esler showed the following facts:

Insurance carried upon 38,500,538 square feet of glass.

The total receipts for the year ending August 1, 1913, and including last year's balance, as per treasurer's report have been $58,255.33.

The total expenditures, as per treasurer's report have been $39,353.34.

The cash balance on hand is $18,901.99, of which $483.03 belongs to the Reserve Fund.

The Reserve Fund now amounts to $30,483.03, of which $30,000 is invested in high grade securities, and $483.03 cash in hands of the treasurer.

The amount of interest collected on bank deposits for the year is $243.40.

The amount of interest collected on Reserve Fund investments for the year is $1,275.00.

Interest refunded on bond purchase is $6.11.

Losses representing a breakage of 118,745 square feet of single thick glass and 85,136 square feet of double thick glass have been paid during the past year.

Nineteen hundred and sixty losses have been adjusted since the organization of the F. H. A., involving a total expenditure of more than $278,000.

All indebtedness of the F. H. A. has been paid, and the Reserve Fund is now intact; with a handsome balance in the treasury. A careful consideration of the treasurer's report is solicited.

The amendments to Sections 1 and 7, of Article 5, of the By-Laws, have been overwhelmingly approved by a membership referendum and their practical working will undoubtedly be, to equalize the amount to be paid by unequal risks; and also to define and fix an automatic charge upon hazardous risks.

Following is a summary of the report of Joseph Heacock, treasurer:

Dr.

To balance on hand Aug. 1, 1912	$4,577.81
To total receipts for year ending Aug. 1, 1913	53,677.52
	$58,255.33

Cr.

By losses paid Aug. 1, 1912, to Aug. 1, 1913	$16,432.69
By expenses	3,678.43
By investments	4,242.22
Miscellaneous	1,000.00
By balance on hand	18,901.99
	$58,255.33

AMERICAN ROSE SOCIETY.

American Rose Society met Wednesday morning. President Pierson made a felicitous address and Secretary Hammond made report. Many items of routine nature were disposed of. A committee with power to act was appointed in the matter of a test garden consisting of Alex. Cumming, Jr., Theodore Wirth, W. F. Gude and Prof. Beal.

AMERICAN CARNATION SOCIETY.

The American Carnation Society held an Executive Committee meeting on Thursday morning with a good number of the members also present. The questions of the next meeting place and of participation in the New York Flower Show were discussed at great length.

AMERICAN GLADIOLUS SOCIETY.

The American Gladiolus Society met on Thursday forenoon. President Hendrickson's address was a very practical paper. He advocated affiliation with the Society of American Florists. Secretary Gage read records and financial reports showing good condition. Treasurer Crawford's report indicated balance in the bank of over $500. The judges reported on the very comprehensive display of gladioli and the high standard of quality and variety in the amateur department of the exhibition. The list of awards as read will be published next week. Officers were nominated but the election was deferred until a later session. Discussion of the renaming of old varieties developed vigorous condemnation of this mischievous practice.

Secretary's Report.

There is almost always a critical period in every society's life that affects its future existence. I will not say that we have arrived at that period, but the germ is working, so we must be alert to destroy it before it gets established beyond control. The first indication of this germ's presence is the waning interest of the majority of our members in contributing material for our bulletin. If we do not get this material our bulletin will not continue to be a factor in holding our membership, especially our amateur members. I want to say this much—that the amateurs must do their share in keeping up the interest and standard of the bulletin by contributing to its pages.

It is about time that something more than mere pen slinging was done concerning the renaming of varieties and the naming of other growers' seedlings without consent of the originator. At a recent exhibition of gladioli in Boston, I had the displeasure of seeing two of Groff's varieties exhibited as seedlings and one of these has already been named by Mr. Groff. If this sort of piracy is allowed to continue, what protection can the American Gladiolus Society hold out to the honest producer of new varieties?

Concerning the matter of newspaper publicity, I wish to especially commend the articles published through the courtesy of Messrs. F. S. Morton of the Portland Evening Express and J. M. Adams of the Hartford Times.

Our membership has increased to the number of 23, but it could easily have been raised to double that number with very little effort on the part of our members.

At the International Flower Show in New York last spring, our society offered a very attractive prize schedule, but it seems that the time is not yet ripe to bring out a good exhibition of forced gladioli, for the only exhibitors at New York were John Lewis Childs and Chamberlain & Gage.

At the meeting of the society which was held in New York it was voted to adopt the "Repertoire des Couleurs," published by the French Chrysanthemum Society, upon the recommendation of the Color Chart Committee.

By direction of the Executive Committee the society medals were sent to the Central New York Horticultural Society and the El Paso County Horticultural Society, Colorado Springs, Colo.

It is my sad duty to have to report the deaths of two of our members who have passed away since our last meeting—Mrs. Montague Chamberlain, who died in Boston, Tuesday evening, January 7th, and Frank Banning, whose death occurred at his home in Kinsman, Ohio, March 17th.

Respectfully submitted:

L. Merton Gage, Secretary.

CATALOGS RECEIVED.

C. Keur & Sons, Hellegom, Holland. Price list of Gladioli for fall or spring shipment.

Peter Henderson & Co., New York. Henderson's list of wheats, grasses, clovers, etc., for fall sowing.

New England Nurseries, Bedford, Mass. Catalog of bulbs, evergreens, deciduous trees, hardy vines, shrubs, herbaceous perennials, etc., for autumn planting. A most attractive and complete list, fully illustrated.

IN BANKRUPTCY.

Poughkeepsie, N. Y.—Sunnyfield Nursery Company; assets, $6,724; liabilities, $5,978.

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..**BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD.** An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..**BODDINGTON'S CHRISTMAS PINK.** This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..**BODDINGTON'S CHRISTMAS WHITE.** A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..**ANGELINO.** Self pink; new variety	.50	1.50	2.75	4.50
..**CANARY.** Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..**FLAMINGO.** Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..**CHRISTMAS METEOR.** Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..**CHRISTMAS STELLA MORSE.** Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..**FLORENCE DENZER.** Pure white	.25	.75	1.25	2.00
..**LE MARQUIS.** This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..**MISS HELEN M. GOULD.** White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..**MISS JOSEY REILLY.** Lilac very large flowers	.25	.75	1.25	2.00
..**MRS. A. FARENWALD.** Extremely large; dark pink. Very early	$0.75			
..**MRS. E. WILD.** Carmine or dark pink	.25	.75	1.25	2.00
..**MRS. ALEX. WALLACE.** Lavender; very scarce	.25	.75	1.25	2.00
..**MRS. HANNAN.** Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..**MRS. JAMES WHEELER.** Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..**MRS. WM. SIM.** Salmon pink	.25	.75	1.25	2.00
..**MRS. GEO. LEWIS.** Large, pure white, wavy flower	.25	.75	1.25	2.00
..**MRS. W. W. SMALLEY.** Satiny pink	.25	.75	1.25	2.00
..**MRS. F. J. DOLANSKY.** Daylight pink	.25	.75	1.25	2.00
..**MRS. CHAS. H. TOTTY.** Sky blue; late	.25	.75	1.25	2.00
..**MRS. ZVOLANEK.** Blue, variegated; good for variety	.50	1.50	2.75	5.00
..**ORANGE BIRD.** Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..**PINK BEAUTY.** Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..**WALLACEA.** Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..**WATCHUNG.** Pure white	.25	.75	1.25	2.00
..**WINTER CHEER.** Wavy, large white flower	.50	1.50	2.75	4.50
..**WM. J. STEWART.** Blue self	.35	1.00	1.75	3.00
..**ZVOLANEK'S PINK.** Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

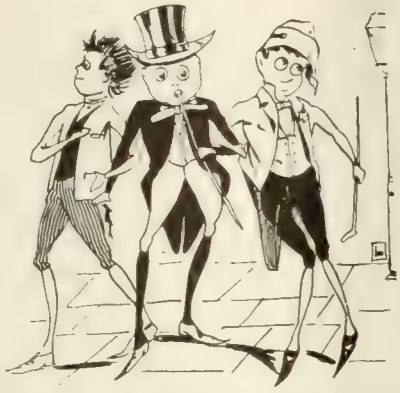
Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK



Without a Doubt

You all have enjoyed the Convention, now get down to briny and take advantage while they last.

ST. DAVID'S ISLAND HARRISII

One of the most fertile islands of Bermuda groups, producing bulbs of ordinary quality. 5 to 7 healthy bulbs of good substance 400 to case $5.00 per 100; 7 to 9, 200 to case $9.50 per 100

FREESIAS

Refracta Alba, selected, 100 80c., 1000 $7.50; Mammoth, selected, 100 $1.00, 1000 $9.50; Purity Queen of all Freesias, 100 $3.00, 1000 $25.00

WM. ELLIOTT & SON, 42 VESEY ST., NEW YORK

STOCK for FALL DELIVERY

EXCELSA RAMBLERS.

The finest Crimson Rambler, good color, good foliage, good habit, field-grown plants, well branched, own roots. $4.00 per dozen.

ANEMONE JAPONICA.

Alba and Queen Charlotte. Strong field grown plants. $2.00 per doz. $15.00 per 100.

SHADE TREES.

American Elms, 5-6 in.	$35.00	per 100
Ash-leaved Maples, 7-8 in.	35.00	" "
White Ash, 5-6 in.	30.00	" "
" " 6-7 in.	35.00	" "
Green " 5-6 in.	30.00	" "
" " 6-7 in.	35.00	" "

Strong stock with splendid roots. All of the above our own growing. No charge for packing.

Ramblers and Perennials a specialty. Special prices to the trade.

EDWARD W. BREED
94 Prescott St., - Clinton, Mass.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS
Nurserymen and Florists — Rutherford, N. J.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK

W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.
ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

EVERGREENS FOR IMMEDIATE EFFECT — **JAPANESE MAPLES IN POTS**
Potted Strawberries our OWN GROWING — Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

"MILLIONAIRE"
STRAWBERRY PLANTS

Growing Strawberries forty years. Have all varieties. Originated "Millionaire" largest perfect sweet Strawberry grown, tested in all soils ten years. Selling 30 cents a quart by crate. Twelve plants carefully packed prepaid by mail, one dollar cash with order. Orders promptly filled.

HENRY JERDAMAN
HILTON, NEW JERSEY

STRAWBERRIES
POT-GROWN PLANTS
All the Leading Varieties
.... for ....
July and August Planting

BRECK-ROBINSON NURSERIES
LEXINGTON, MASS.

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

Flowering, Decorative and Vegetable Plants
In abundance at all times. See our display adv in HORTICULTURE, May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

A PEACH!

We had the pleasure, this week, of sampling for the first time some fruit of the Ray peach, grown by J. G. Harrison & Sons of Berlin, Md. In size, color, flavor and keeping qualities it certainly bears out Mr. Harrison's description as a fruit. He states that in point of vigor and bearing this peach is in a class by itself over a very large range of territory and conditions. In point of sales of young trees it already stands next to Elberta.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

For the past few weeks we have not furnished any seed notes of particular interest, for the reason that crop news is about all that appeals to the trade at this time of year, and most of the "news" of this character from week to week is little else than a repetition of the previous week's budget. Now, however, matters have progressed to a point where some idea of probable results is possible, yet we feel constrained to warn readers against accepting possible results as accomplished facts, as much damage may overtake all crops before they are safely in store.

Cabbage and Turnip Crop.

Cabbage and turnip seed, are mainly harvested, and with varying yields, though the net result seems to indicate some shortage on the acreage put out, but as there was a considerable increase in acreage, the total crop will no doubt be larger than a year ago. The Long Island cabbage seed crop has been fully up to average though it is claimed that the output was smaller. We haven't anything authentic from Puget Sound, but on such information as we have we believe the crop is considerably below early estimates.

Pea Situation.

In the matter of peas, the situation is not quite clear, but beyond question there will be no bumper crop. There may be some surplus of late varieties, particularly of the telephone or large podded type, but of the earlies, especially the "canners" sorts, there will be no more than required, of good pedigree stock. That there will be the usual offerings of more or less degenerate seed is certain and that there will be the usual buyers who never see any point but the price, is just as certain. But little seed was raised by the canners of New York State, but as usual, Wisconsin has produced a considerable quantity of Alaska seed of more or less doubtful quality, most of it totally unfit for canning purposes, and should only be used as field peas. Yet even this junk certain canners will buy and plant it too, if the price is sufficiently low. Of course they pack only junk, and get the price of junk. They have no pride of reputation and are positive barnacles on the canning industry. However, this is straying from our subject, and, with apologies, we will return.

Beans.

Beans are at a stage where they are as liable to go one way as another, but present condition is not satisfactory. Unless there is a marked improvement the yield is liable to be below average. And by the way there was a far smaller carry over than seemed probable even so late as April last. Whether the truck farmers will raise any con-



Mignonette
Boddington's Majesty

THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.

Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.

Arthur T. Boddington
SEEDSMAN
342 West 14th St., New York

siderable quantity is a problem for the future.

Corn.

This is surely a problem, that is, as to the extent of the harm the crop has suffered. If the action of the Chicago Board of Trade is a true index of conditions, the damage is more serious than authorities are willing to concede, while admitting that it will shorten the crop by hundreds of millions of bushels.

This refers to the great corn producing states in particular, but excepting possibly Michigan, Minnesota, Northern Ohio and Northern Indiana, the corn crop of the entire country is affected to a greater or less extent. The states in which sweet corn is grown for seeds or from which the bulk of the seed comes, are, Nebraska, Ohio, Michigan, New York and Connecticut, and the first named is by far the worst sufferer. Most of the sweet corn grown for seed in Ohio, is produced in the northern part of the state, thus at this writing it looks as though it had suffered less than field, or yellow corn. Iowa seems to have been the hardest hit of any of the great corn states, the shrinkage in yield being estimated at 50 per cent.*

Tomatoes.

While tomatoes are not so important an item on the seedsmen's list as the other things mentioned, it may be well to note a general shortage, excepting in Michigan, where the crop is said to show promise of an average yield.

Peas.

The total pea pack of the country, now about completed, shows some increase over last year. The addition to last year's acreage is variously estimated at from 10 to 20 per cent. No figures showing the total number of cases have been published. Maryland and Delaware produced about 30 per cent. of an average, Indiana and Ohio 60 per cent., Michigan 70 per cent., New York full average, and Wisconsin 80 per cent., though the latter fell off 40 per cent. from last year. It must be remembered, however, that last year's crop in Wisconsin was phenomenal, varying from 125 to upwards of 200 cases to the acre, against a five-year average of 80 to 120.

California Seed Crop.

So far as California seed crops are concerned, we have no reason to materially change our estimates from those we last gave, but we shall soon be in position to give more detailed information, and we may say same of the European situation.

Notes.

There is little activity in the trade just now. Vacations and stock taking are the chief business. The summer will soon be past, the harvest ended, but what of the rest?

*Cucumbers, squashes and melons in Nebraska and Oklahoma are suffering severely, and it looks like a hardening of prices on nearly all varieties of vine seeds. In Michigan cucumbers are promising fair yields, but there will be a considerable shortage in New York and a much reduced acreage.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of varied colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz; per oz., $5.00.

GIANT CYCLAMEN SEED

ENGLISH GROWN SEED

Pure White, Soft Pink, White with Red Base, Brilliant Crimson, Salmon Pink, per 100 seeds, $1.00; $8.50 per 1000 seeds. Mixed colors, per 100 seeds, 50c.; $3.00 per 1000 seeds.

GERMAN GROWN SEED

White, Pink, Red, White with Red Base, per 100 seeds, 75c.; $6.00 per 1000 seeds. Mixed colors, per 100 seeds, 60c.; $5.00 per 1000 seeds.

GIANT PRIZE PANSIES

IN SEPARATE COLORS

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

MYOSOTIS

Alpestris Victoria	$0.25	$1.00
Eliza Fanrobert	.15	.50
Palustris	.30	1.75
Palustris Semperflorens	.25	1.25

Also all other Seasonable Seeds and Supplies for the Florists. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds — Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Walter Mott's Notes By The Way

Ypsilanti, Mich.

The Michigan Central Railroad still follow an excellent idea, adopted several years ago, of distributing small bouquets of flowers to its patrons while the train is at the station. On this occasion asters were the favors, large baskets being emptied in quick order to appreciative recipients who usually preserve the card attached as a souvenir.

Kalamazoo, Mich.

Jno. Von Bochove left on Wednesday via the auto route for Minneapolis. He is a faithful attendant at all S. A. F. Conventions.

Detroit, Mich.

Frank Danzer expects his several advancing ideas will create considerable discussion at the Convention.

S. S. Skidelsky was expected to drop off en route to Minneapolis to see Philadelphia, which is giving a good account of itself as a summer carnation. Advance sales are reported heavy.

Lohrmann Seed Co. have passed through a banner season and regret a shortage on several popular lines for next season's trade.

Buffalo, N. Y.

H. Keitsch & Son Co. are rebuilding but expect ere long, owing to the advance in real estate values to join the majority in locating farther from the centre of the city.

W. F. Kasting was giving the last word ere leaving for Minneapolis, where he will hold up the reputation of the Bison City as a flower centre.

Slingerland, N. Y.

Fred Goldring reports bumper crops of hay, corn and fruit. Roses outdoors, especially Maryland, are the finest seen in this locality.

NEW SEED STORES.

Rockford, Ill.—Cherry Seed Company, 127 North Main street.

Columbus, Ga.—Smith Seed Company, J. C. Smith, proprietor.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice

On and after September 1, 1913 our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

BULBS ARRIVING

LILIUM HARRISII (True Bermuda Easter Lily)

9-11 in., per dozen, $3.75; per 100, $23.00
7- 9 in., per dozen, 1.35; per 100, 8.75

Our stock comes direct from one of the best growers in Bermuda, to whom we pay special prices to secure extra good bulbs. Our stock this year is the best in appearance we have seen in a long time.

Amaryllis Johnsoni .....$2.50 dozen
Amaryllis Vittata Hybrids... 3.50 dozen

Oxalis, Bermuda Buttercup, per 100, $1.00; per 1000, $8.50.

Pansy Seed, Vick's Giant Superb, ⅛ oz., 75c.; ¼ oz., $1.35; 1 oz., $5.00.

WRITE FOR FALL CATALOG.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO. FANEUIL HALL SQUARE

WIZARD BRAND

SHEEP MANURE

PULVERIZED

Cattle Manure

Shredded or Pulverized

See Our Trade List.

BOSTON

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ⅛ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00

We have also extra fine strains of Masterpiece, Madam Perret and all the leading varieties of Giant Trimardeau.

Write for Prices.

FREESIA

REFRACTA ALBA:	100	1000
⅜ to ½ in. diameter	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
PURITY, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

53 Barclay St., NEW YORK

T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS
Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1882
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506 Long Dist. Bell Phone 2150
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Oakland, Cal.—Tassano Bros.

Buffalo, N. Y.—J. Benson Stafford, 82 Chippewa street.

Montgomery, Ala.—W. E. Denny, Tresslar's Art Studio.

Dallas, Tex.—Brown-Dawson Company, 1627 Elm street.

Birmingham, Ala.—Lambert's Flower Store, 1014 First avenue.

Maywood, Ill.—A. T. Hay Floral Co., Theatre Building, Fifth avenue; Chas. Cassier, 6 Fifth Ave.

STEAMER DEPARTURES

Allan.
Pomeranian, Montr'l London Aug. 24
Victorian, Montreal Liverp'l..Aug. 26
Scotian, Montreal London....Aug. 31

American.
St. Louis, N. Y.-S'hampton..Aug. 29

Atlantic Transport.
Minnetonka, N. Y.-London.. Aug 30

Cunard.
Campania, N. Y.-Liverpool. Aug 27
Franconia, Boston Liverpool Sept 2
Ivernia, N. Y. Mediterran.... Sept. 2

French Line.
La Savoie, N. Y.-Havre ....Aug 27
Virginie, N. Y. Havre. ... Aug 30
Chicago, N. Y.-Havre . . Aug 30

Hamburg-American.
Pres. Grant, N. Y. Hamburg, Aug 27
Imperator, N Y Hamburg . Aug 30

Holland-America.
New Amst'd'm, N. Y. R'd'm Aug. 26
Noordam, N. Y. Rotterdam Sept 2

Leyland.
Devonian, Boston Liverpool..Aug 30

North German Lloyd.
Kr. Wilhelm II, N Y Br'm'n Aug 26
Bremen, N. Y.-Bremen.....Aug. 28
Pr. Fr. Wilhelm, N Y B'm'n Aug 30

Red Star.
Kroonland, N. Y.-Antwerp...Aug. 30

White Star.
Arabic, Boston Liverpool....Aug 26
Cedric, N. Y.-Liverpool ....Aug 28
Majestic, N. Y. Southampton Aug 30
Laurentic, Montreal Liverp'l.Aug 30

CINCINNATI NOTES.

Frank Volz of Jos. Volz & Son, is traveling through the east.

C. L. Baum of Knoxville stopped in this city on his way to Minneapolis.

Visitors: C. P. Dietrich of Maysville, Ky., and J. T. Herdegen, Aurora, Ind.

W. C. Hall of Hall & Robinson has the deep sympathy of the trade in the loss of his seven-year-old boy, Willie, who died last week of internal blood poisoning after an illness of only a few days.

A very satisfactory method of packing gladiolus spikes is in use by The Norfolk Nurseries of Simcoe, Ont. Baskets of chip, similar to ordinary peach baskets but much taller—about 30 inches high are used to hold 100 spikes which with a lining of one thickness of paper fills the basket tightly and shipments so made, travel to the Montreal Floral Exchange in perfect condition.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

WASHINGTON, D. C.
GUDE'S
GUDE BROS CO
FLORISTS
1214 F ST. N.W.
WASHINGTON D.C.
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

ST. LOUIS NOTES.

Mr. Henry Emunds of Belleville is shipping a large box of blooms of his new yellow canna sport of King Humbert to the Minneapolis convention. The sport has been named Queen Helen in honor of King Humbert's wife.

Mr. Dave Geddis, formerly with F. H. Weber will open for the big Vandevoort Department store at 10th and Oliver streets a floral department on September 15th. The fixtures and large refrigerator are now being placed. A full line of cut flowers, plants and bulbs will be kept on hand and will be carried on a large scale.

NEWS NOTES.

Kansas City, Mo.—J. L. Harriman, formerly proprietor of the Waldo Greenhouses, is succeeded by Adolph D. Mohr.

Cleveland, Ohio—A new wholesale house will soon open here under the name of the Cleveland Plant & Flower Company.

Chicago, Ill.—President Edmund J. James announces that the trustees of the University of Illinois have purchased an estate of 320 acres at a cost of $256,000, for the purpose of enlarging and developing the horticultural interests of the university.

RICE'S TRIUMPH
AT THE
S.A.F. CONVENTION
WAS COMPLETE
First Honors Were Ours.
Our Display has Never Been Equalled
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

During Recess

Annual Outing of the Westchester and Fairfield Horticultural Society.

The third annual outing and games of the Westchester and Fairfield Horticultural Society was held at Rye Beach, Rye, N. J., on August 12th. The games which started at 10 A. M., provided excellent sport and enjoyment. At 2 P. M., a halt was called to repair to the beach hotel where T. Edwards had provided an excellent shore dinner. About 135 sat down to dinner and after doing justice to the good things provided, President Robert Williamson spoke of the pleasures he derived of presiding over such a notable gathering, the excellent work being done and also the honor accorded the society by the presence of so many representatives of the trade. Short speeches were also made by J. Maud, Wm. McTaggart, S. Burnett, F. E. Conine and others.

Continuing with the games keen rivalry existed between the two counties in the baseball and football matches, Westchester being the winners in each event. The distribution of prizes put the closure on what was pronounced by all to be the best outing ever held by the society. Appended is the list of prize winners:

Shot put -1st, W. J. Seeley; 2nd, J. B. Roy. 100 yd. dash, 1st, W. J. Seeley; 2nd, B. Berg. Quarter-mile run—1st, W. J. Seeley; 2nd, B. Berg. Running high jump—1st, J. B. Roy; 2nd, W. J. Seeley. Running broad jump—1st, B. Berg; 2nd, W. J. Seeley. Hammer throw, 1st, Thos. Aitchison; 2nd, W. Graham. Boys' race—1st, F. P. Conine; 2nd, Louis Ottman. Three-legged race, 1st, F. Dixon and A. Wynne. Ladies' race, 1st, Mrs. Authon Peterson; 2nd, Mrs. O. Addor. Boys' race—1st, Bert Roberts; 2nd, Alex Geddis. Children's race—1st, Marie Addor; 2nd, Bessie Cruicksbank. Baseball—Westchester, 7; Fairfield, 2. Football—Westchester, 3; Fairfield, 0. Quoits—Westchester, 21; Fairfield, 12.

OWEN A. HENWICK,
Cor. Sec'y.

Lenox Horticultural Society.

The annual field day of the society was held in a field adjoining Lake Mahkeenoc on the Tanglewood estate, owned by R. C. Dixey, Esq. There was a large attendance of the local gardeners and their friends. The following are the list of events and the winners:

100-yd. dash—1st, John Grindrod; 2nd, John Berkinshaw. 200-yd. dash—1st, John Berkinshaw; 2nd, John Grindrod. Throwing 16 lb. hammer, 1st, Robert Grindrod, 2nd, John Grindrod. Putting the shot, 1st, Robert Grindrod, 2nd, John Grindrod. High jump, 1st, Robert Grindrod, 2nd John Grindrod. Hop, step and jump, 1st John Berkinshaw; 2nd, John Mair. Long jump, 1st, John Grindrod, 2nd, Tom Woods. Three-legged race, 1st, Oscar Whittemore and Robert Scott; 2nd, John Grindrod and John Mair. Sprinting, 1st, Oscar Whittemore; 2nd, John Donohue.

There was also a football match between two teams, one captained by Robert Scott, the other by Robert Grindrod. After a hard game Scott's team proved victorious by one goal to nothing, the winning goal being scored by Captain Scott.

JOHN MAIR,
Assistant Secretary.

CHICAGO NOTES.

Miss Parker of the Chicago Carnation Co., and Miss O. A. Tonner have returned from a very pleasant trip of two weeks to Mackinaw Island and vicinity.

Word from Chas. W. McKellar and party, motoring to the convention, states that they are having a fine trip. They expected to reach Minneapolis Monday.

A. Miller and G. M. Reburn will represent A. Henderson & Co. at the convention. They will have a display of bulbs and other seasonable stock and will be glad to meet old friends or make new ones.

The local and visiting florists on their way to Minneapolis to the S. A. F. & O. H. Convention required about twenty cars, ten cars going over the Great Western, seven cars as a special train of the Pioneer Limited of the C. M. & St. Paul, and the balance going over the Chicago & Northwestern.

There were several hundred florists in Chicago on Monday on their way to Minneapolis. Many of them had a few hours in the city waiting for their trains to go out in the evening, and spent the time pleasantly in renewing old acquaintances or in visiting the nearby greenhouses, but most of them did not get away from the down town district.

Visitors; are too numerous to mention by name and we do not wish to slight any of them. But they are always welcome and the latch string is always out and the glad hand ready.



A MODEL FLOWER STORE.



View in the establishment of Speed & McManus, Hartford, Conn. Notice the McCray refrigerator. Isn't it a beauty?

ONCE MORE
THE BIGGEST AND BEST

OUR extensive display of **Floral Art Goods, Baskets, Vases, Preserved Flowers and Foliage,** and all up-to-date accessories for Florists' decorative work, at Minneapolis, was the finest ever brought together; rich in novelties and useful introductions of this season from abroad.

Send in your orders early and get the pick of this choice array

Write for Splendid Illustrated Catalogue "Our Silent Salesman," 100 Pages of Helpful Pictures.

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch St., - - - - - - Philadelphia, Pa.

Obituary

Hugh Lee.

Hugh Lee, originator of the Bridesmaid rose, died at his home, 18 Hughes place, Summit, N. J., August 4th, aged 59 years. He was born in Ireland, coming to this country when a boy. A widow and six children survive him.

Francis E. Bechler.

Francis E. Bechler, for forty-three years prominent as a florist in Lancaster, Pa., died August 10th. He was a member of the Lancaster Florists' Club and had always taken an active interest in its progressiveness. He is survived by three sisters and three brothers.

Jonathan W. Kerr.

Jonathan W. Kerr, a well-known horticulturist, died suddenly at his home in Denton, Md., August 1, aged 71 years. He was engaged in the nursery business for over forty years and was recognized as an authority on plum culture. He leaves a wife and two daughters.

Paul Kase.

Paul Kase, 38 years old, president of the firm of Wm. Hagemann & Co., New York, bulb importers, committed suicide on board the steamship Massachusetts, Monday evening, August 18. He had boarded the vessel at Boston and his body was found in his stateroom two hours after the vessel had docked in New York. Business troubles are believed to have caused his death. Mr. Kase made his home in Bloomfield, N. J.

PHILADELPHIA NOTES.

Charles Sim writing from Aberdeen, Scotland August 10th, reports "all well and having a good time."

We understand from Mr. J. G. Schattmaier that he has severed his connection with Mr. Blackistone and has a new move under consideration which will be announced in due course.

Visitors: Otto Heinecken, New York City; Mr. Schattmaier of Blackistone's, Washington, D. C.; Sidney Hoffman, Boston, Mass.; H. L. Holmes, Harrisburg, Pa.; Mr. Holz, Queen City Floral Co., Seattle, Washington.

John Clark has been appointed acting superintendent of the National Botanical Gardens, Washington, D. C., and it is believed he will be named as successor to the late C. Leslie Reynolds. Mr. Clark was born in Scotland eighty-two years ago. In 1854 the late William R. Smith deavored to have him cross the oce to become his assistant at the Ga dens. At that time he refused and i was not until nearly forty-five years later that he emigrated to this country and accepted a position as propagator. Upon the death of Mr. Smith and the promotion of Mr. Reynolds to the superintendency, he was made assistant superintendent, the position he had refused fifty-nine years before.

Personal

E. O. Stevens succeeds O. B. Stevens as manager of the Shenandoah Greenhouses, Shenandoah, Iowa.

A. Leuthy, of Roslindale, arrived home from his visit to the Ghent Exhibition, on Tuesday, August 12. Says he had a grand time.

L. Merton Gage, of South Natick, Mass., has been appointed on the horticultural committee of the Panama-Pacific International Exposition.

George McWilliam of Whitinsville, Mass., is in a very critical condition following an operation at the New England Baptist Hospital, Boston.

Louis Schmutz, Jr., and wife sailed on Saturday, August 16th, on a trip for business and pleasure combined, to England and Belgium. Mr. MacNiff sailed on the same steamer.

Thomas A. Houlihan, head gardener for Senator W. A. L. Bazeley, Woonsocket, R. I., for the last four years, has resigned and accepted the position of superintendent to A. F. Costello, Beverly, Mass.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
553 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

BEAUTIES

$1.00 to $3.00 per Dozen

Our local grown Beauties are the best we ever had at this season of the year. We have an extra large supply of the short and medium grades, stems 12 to 28 inches long, at

$5.00 to $15.00 per Hundred

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., ***PHILADELPHIA***

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI July 28			CHICAGO August 18			BUFFALO August 18			PITTSBURG July 28		
Am. Beauty, Fancy and Special	20.00	to	15.00	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Extra	8.00	to	10.00	12.00	to	15.00	10.00	to	12.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	5.00	to	8.00	6.00	to	10.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	2.00	to	3.00	2.00	to	4.00
Killarney, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	4.00	3.00	to	4.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	6.00	6.00	to	8.00
" " " " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Carnations, Fancy Grade	.....	to	1.50	2.00	to	3.00	1.00	to	1.50	1.50	to	2.00
" Ordinary	.....	to	1.00	1.00	to	2.00	.50	to	1.00	.....	to	1.00
Cattleyas	.....	to	.....	.....	to	50.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	2.00	to	5.00	5.00	to	6.00	2.00	to	3.00	3.00	to	6.00
Asters	.....	to	.....	.50	to	2.00	.....	to	.....	.75	to	3.00
Daises	.....	to	.50	.15	to	.25	.....	to	.....	.....	to	.....
Sweet Peas	.....	to	.....	.25	to	.75	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	.....	to	12.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	35.00	to	50.00	25.00	to	35.00	40.00	to	50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

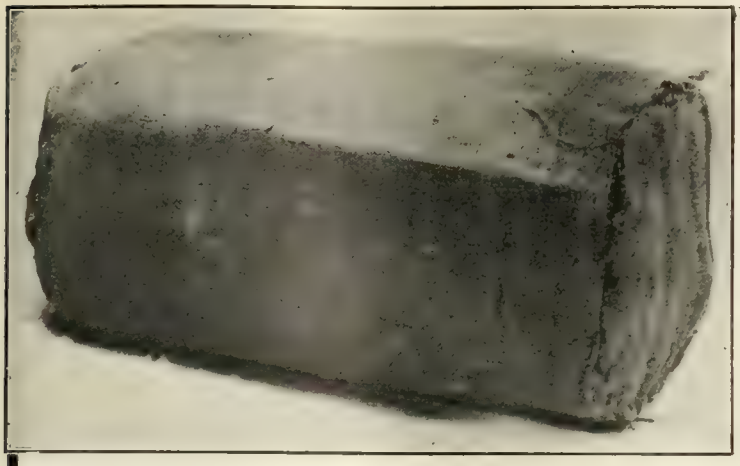
WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



SPHAGNUM MOSS

SPECIAL OFFER OF SELECTED MOSS IN BURLAPPED BALES.

We find that shipping the Moss in burlapped covered bales is a great saving to the buyer. If you can anticipate your wants for the coming season, you can save money by placing your order now. Moss can be gathered more easily now and the quality is better than it will be later. This offer is good for orders received during the month of August.

1 ten bbl. bale..	$3.50	10 ten bbl. bales..	29.00
5 ten bbl. bales.	16.00	25 ten bbl. bales	68.75

HEADQUARTERS FOR GREENS

Bronze Galax: $2.00 per 1,000.
Green Galax: $1.00 per 1,000; $7.50 per 10,000.
Green Leucothoe, new crop: $1.00 per 100; $7.50 per 1,000. **Green Sheet Moss:** $3.50 per bag.
Asparagus Strings: 50c. each.
Asparagus and Sprengeri: Bunches, 50c. each.
Adiantum: $1.00 per 100.
Smilax: 20c. per string.
Cut Hemlock: $2.50 per bundle.
Hardy Dagger Ferns, best quality, large fronds: $1.50 per 1,000.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. **Our new illustrated Catalogue of Ribbons and Supplies** will be ready in September. Let us have your name now so we can mail you a copy.

DURING AUGUST WE CLOSE AT 5 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA 1608-1620 Ludlow Street
NEW YORK 117 West 28th Street
WASHINGTON 1216 H. St., N. W.

PM QUALITY

Flower Market Reports

BOSTON Market conditions might be worse, steamer sailings this week having boomed the market considerably and they are fast becoming an item of considerable importance to the trade in this city. Asters are not as plentiful, the quality is poor, but gladioli are abundant and fine with but little demand. Roses are soft and small, numerous and cheap, while white roses are scarce but much in demand. Carnations have good flowers but short stems and lily of the valley is plentiful.

BUFFALO Trade continued good considering the severe hot weather. Roses are much affected, though Maryland and Double White Killarney come in good and with a slight flurry of weddings, they have cleaned up well.

Branching asters are coming on though not near enough to supply the demand. Gladioli were over plentiful and the colored varieties were not taken well. America and May are best sellers. Lilies are still over plentiful and have only normal demand.

CHICAGO The wholesale trade in Chicago is very quiet just now, as is always the case during Convention week. There is a heavy supply of gladiolus, asters and other outdoor flowers and the carnations and roses from early inside plantings are coming in increased quantity and improved quality, though prices remain about the same.

CINCINNATI Business, this week if anything, was worse than last. The buyers were not at all active in securing stock on their daily visit to the wholesale houses. This fact coupled with an increasing supply tended to make matters worse. The continued strong call for stock from out of town was the only bright feature. The rose cut shows a superabundance of short stock. That does not sell any too well. Longer stock enjoys some call but not enough to clean up. Besides, the usual line of summer roses. The receipts of Killarney are very fine. Gladioli are still in a large supply and of the better grade of stock. Asters are larger both in respect to the size of the shipment and the flower. The first of the large, late asters are beginning to arrive in quantity. Lilies are more plentiful but the call for them is not large enough to take them all up daily. Hardy Hydrangeas meet with a fair request. Pond lilies find a fair market.

PHILADELPHIA Lots and lots of poor asters and only the good ones are selling. Some extra fine greenhouse grown are coming in. The gladioli crop is slackening. Beauties are selling better than a week ago. The quality is improving also. Some very nice new crop stock from local growers; lily of the valley one of the briskest items. Easter lilies are plentiful and go only moderately well. Cattleyas still very scarce and high in price. Carnations—some new crop arriving, very nice; not long stemmed as yet. Roses are not so plentiful. Some very good Sunburst, the most popular in its color at present. A few Dendrobium Formosum—a limited amount of gardenias with small demand. Tuberoses and hydrangea heads are in good supply. A little early cosmos arriving.

ST. LOUIS The wholesale market is in a sad condition. There is plenty of stock in almost every thing that is needed, but the demand is so poor that a great deal is being dumped. The glut is on roses, gladiolus and tuberose stalks. Prices are even lower than the week previous and they were low enough.

Carnation are scarce, asters are coming in in plenty and some fairly good flowers are now to be had.

The Boston Co-operative Flower Market will hold its tenth annual sale of stalls on Saturday, August 30, at 2 Park street, Boston, at 9.30 A. M. W. W. Tailby will again hold forth as auctioneer. The rent of stalls has been reduced to $20.00.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON August 21			ST. LOUIS August 18			PHILA August 4		
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Richmond, Hillingdon, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" " Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00
" " " " Ordinary	.50	to	2.00	3.00	to	4.00	.50	to	2.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	1.00	to	1.50	.50	to	1.00
Cattleyas	.....	to	50.00	40.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	4.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	4.00	.50	to	4.00
Asters	.35	to	1.50	1.00	to	2.00	.25	to	3.00
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.25	to	.50
Gardenias	8.00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe. Preserved and Fresh Cut Cycas and Palmetto.
Tel {1519 / 5893} Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4168 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 16 1913	First Half of Week beginning Aug. 18 1913
Cattleyas	60.00 to 75.00	60.00 to 75.00
Lilies, Longiflorum	3.00 to 5.00	3.00 to 5.00
Lily of the Valley	1.00 to 3.00	1.00 to 2.50
Gladioli	.50 to 1.50	.50 to 1.50
Asters	.50 to 1.50	.50 to 1.50
Daises	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

ANNUAL
AUCTION SALE OF STALLS
On Saturday, Sept. 6, at 9 A. M.
AT THE
BOSTON FLOWER EXCHANGE, Inc.
32 Otis St., 1 Winthrop Sq., Boston

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Clubs and Societies

SOUTHAMPTON HORTICULTURAL SOCIETY.

At the last regular session of this society there was principally routine business and some discussion over the exhibition just passed.

At the exhibition there was a fine display of large palms from the greenhouse of Mr. William Manice; also several collections of handsome gloxinias and tuberous begonias. Mrs. R. M. Thompson exhibited several plants of Buddleya variabilis, for which she received the Michell prize of $10.00.

At the close of the exhibition, Mr. Patrick A. Valentine, a wealthy summer resident here from Chicago, purchased the vegetables and donated them to the Fresh Air Home and Southampton Hospital.

COOK COUNTY FLORISTS' ASSOCIATION.

The Cook County Florists' Association held their regular meeting at the Tavern, Thursday evening, August 14th. In the absence of President Kohlbrandt, vice-president Allie Zech presided. Two new members were elected, W. S. McGee and Florian D. Wallace. Picnic committee reported preparations for the picnic, Sept. 7th, were being completed and a good time is promised. The new Cook County buttons were distributed. A large number of members expect to go to the convention.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of the Nassau County Horticultural Society was held at Pembroke Hall, Glen Cove, on Wednesday, Aug. 13. In the absence of the President, Vice-President McCarthy presided. Two new members were elected and one application received. It was decided to hold the annual outing on Wednesday, Aug. 27, at Karatsonyi, Glenwood. A committee will prepare a schedule of sports and a good time is assured to all who can attend. The winners in the monthly competition were as follows: 12 asters, 1st H. Gaut; 12 gladiolus, 1st H. Boettcher; 2 cucumbers, 1st H. Jones; 4 vases of asters, honorable mention to A. Fournier. At the next meeting, Sept. 10th, prizes will be offered for six ears of corn, six apples, and one muskmelon.

JAMES MACDONALD, Cor. Sec'y.

CLUB AND SOCIETY NOTES.

The newly elected officers of the Canadian Horticultural Association are as follows: President, H. B. Cowan; first vice-president, Geo. Hopton, Montreal; second vice-president, F. W. Adams, Toronto; secretary-treasurer, Julius Luck, Montreal. Executive committee, H. Edey, Montreal; S. Jordan, Peterboro; and R. L. Dunn, St. Catherines.

Members of the Gardeners' and Florists' Club of Boston, are cordially invited to attend a special Inspection trip to the Experimental Gardens of the H. F. Michell Co., of Philadelphia, at Andalusia, Pa., on August 27. A special train will leave Broad Street Station, Philadelphia, at 11.15 A. M. Refreshments will be served at the Gardens. Recognition tags will be forwarded to all who write for the same.

The annual auction sale of stalls of the Boston Flower Exchange will be held on Saturday, September 6, at 9 A. M., at 32 Otis street and 1 Winthrop square, Boston, Mass. This market has over one-quarter of an acre floor space and is one of the largest and best appointed flower growers' market in the United States. This will be an excellent opportunity to secure a stall at a low rental.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Aug. 16 1913	First Half of Week beginning Aug. 18 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 20.00
" " Extra	6.00 to 8.00	6.00 to 10.00
" " No. 1	4.00 to 5.00	4.00 to 6.00
" " Lower Grades	.50 to 2.00	1.00 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.50
" Ordinary	.50 to .75	.50 to .75

Boston Co-Operative Flower Market
The Tenth Annual SALE OF STALLS Will be Held on
Saturday, August 30, 1913
At 2 PARK STREET, BOSTON, MASS., at 9.30 A. M.
RENT OF STALLS REDUCED TO $20.00 PER YEAR

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus plumosus seedlings, $1.00 per 100; $6.00 per 1000; $50.00 per 10,000. COLLINGDALE GREENHOUSES, Collingdale, Pa.

A. Sprengeri, 3-in., $3.00 per 100. Strong plants. Cash, please. J. W. MILLER, Shiremanstown, Pa.

6000 Asparagus Sprengeri, 3-in. pots, $4.50 per 100, $40.00 per 1000; 4-in. pots, $6.00 per 100, $50.00 per 1000.
White and Yellow Snapdragons, 2½-in., topped two and three times, $3.00 per 100.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

"Tel-Wood," care of HORTICULTURE.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOILERS—Continued

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Lilium Harrisii and Amaryllis Bulbs.
For page see List of Advertisers.

Yokohama Nursery Co., New York, N. Y.
Cold Storage Giganteums.

Peter Henderson & Co., 35 and 37 Cortlandt St., New York.
Henderson's Superior Bulbs for Autumn Planting

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Carnation plants from field, $50.00 per 1000; $6.00 per 100. Cash. Mrs. Ward, Dorothy Gordon, Sangamo, Enchantress, Winsor and White Enchantress.
FLORAL CO., Nashville, Tenn.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS AND EASTER PLANTS

Ernest Oechslin, River Forest, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Chrysanthemums, 2½ in., 500 Gloria, fine early pink; its mate, 200 Oct. Frost, early white, $2.50 per 100; the lot, $14.00. Cash. Ready now. M. B. RHULAND, Winchendon, Mass.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CROTONS

Robert Craig Co., Market and 49th St., Philadelphia, Pa.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, 11 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co.,
Terminal Bldg., 51st St. and Park Ave., New York City.
For page see List of Advertisers.

For List of Advertisers See Page 259

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Ferns in Flats.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Wm. Elliott & Sons, 42 Vesey St., New York.
Chrysanthemum Manure.

Hudson Carbon Co., Ballston Spa, N. J.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Michell's Seed House, 518 Market St., Philadelphia, Pa.
New Bedding Geranium "Helen Michell."

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

William H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 910 Blackhawk St., Chicago, Ill.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY ASTILBES AND SPIRAEAS

Mt. Desert Nurseries, Bar Harbor, Me.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Revere Rubber Co., Boston, Mass.
Revere Garden Hose.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot
For page see List of Advertisers.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

LILY BULBS

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston, Mass.
Two New Lilies from China.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

Pansy Seed—"Mile High" Strain, the result of years of selection and the addition of the best from numerous sources. Colors, size and habits, extra good. Trade Pkt., $1.00; 6 Pkts., $5.00; 12 Pkts., $9.00. THE PARK FLORAL COMPANY, Denver, Colo.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

W. L. Gumm, Remington, Ind
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which will be issued July 25th. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

Frank Oeschlin,
4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMULAS

Primula obconica and Primula chinensis, best varieties, at $3.00 per 100; $25.00 per 1000. Cash please. J. H. FIESSER, North Bergen, N. J.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

PUTTY

W. Elliott & Sons, 42 Vesey St., N. Y.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadlephia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Walsh's Rambler Roses.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 259

SEEDS—Continued

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea and Mignonette Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Giant Superb Pansy Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
New Zealand Spencer Sweet Pea Seed.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 72 Cortland St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Ginseng Seeds—Fine lot of stratified seeds, ready for planting, $6.00 per lb.; less than a lb., $8.00. Cash. C. K. WHITE, Randolph, Vt.

Rocky Mountain Columbine Seed (Aquilegia Coerulea). The Colorado State flower. True to type. Seed grown from collected plants and we grow no other variety. New crop now ready. $1.00 per oz. Write for prices in large quantity. THE PARK FLORAL COMPANY, Denver, Colo.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Wm. Tricker, Arlington, N. J.
Vinca Minor Aurea.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Cincinnati, Ohio

The J. M. McCullough's Sons Co.,
316 Walnut St.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

New York—Continued

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

AUCTION SALE OF STALLS.

Boston Co-operative Flower Market,
2 Park St., Boston, Mass.
For page see List of Advertisers.

AUCTION SALE OF STALLS.

Boston Flower Exchange, Inc.,
32 Otis St. and 1 Winthrop Sq., Boston.
For page see List of Advertisers.

COLEUS; BEGONIAS; HARDY ENGLISH IVY; GERANIUMS.

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

FIELD GROWN CARNATION PLANTS.

Reynolds & Mackay, Burnswick Road, Troy, N. Y.
For page see List of Advertisers.

FREESIAS AND ST. DAVIDS ISLAND HARRISII BULBS.

Wm. Elliott & Sons, 42 Vesey St., New York.
For page see List of Advertisers.

GIANT CYCLAMEN SEED AND MYOSOTIS.

Henry F. Michell Co., 518 Market St., Philadelphia, Pa.
For page see List of Advertisers.

"MILLIONAIRE" STRAWBERRY PLANTS.

Henry Jerdaman, Hilton, N. J.
For page see List of Advertisers.

NURSERY STOCK FOR FALL DELIVERY.

Edward W. Breed, 94 Prescott St., Clinton, Mass.
For page see List of Advertisers.

ORCHIDS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

SPHAGNUM MOSS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

STOVE PLANTS.

T. W., care "Horticulture."
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

WANTED—Nurseryman propagator, experienced in propagating shrubs, trees, herbaceous perennials, roses, clematis, etc., in large quantities. Good position for thoroughly reliable, competent man. State references, age and salary wanted. "W. N Y.," Box 1950, Rochester, N. Y.

FOR SALE

FIVE GREENHOUSES FOR SALE

Near Boston. Up-to-date buildings, some iron-frame; electric lights. Handsome office, large show windows. Steam heat. Established trade 20 years. Street cars pass the door. Steam cars 3 minutes walk. Owing to recent death of owner this property, with about one acre of land, will be sold very low. Will meet parties interested at office of HORTICULTURE by stating time. Address "M. H. N.," care Horticulture Publishing Co.

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x 24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Sharon, Mass., 17 acres, cottage house, shed, barn, two greenhouses. Cheap for cash. Full particulars. E. G. BLANEY, Swampscott, Mass.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to

B. HAMMOND, - Fishkill-on-Hudson, New York.

Aphine

The Insecticide that Kills plant Lice of every species

The Recognized Standard Insecticide.

For green, black, white fly, red spider, thrips, mealy bug and soft scale.

$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.

75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.

$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.

75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon Kil Worm makes 50 gallons liquid when mixed with water

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon Kil Weed diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

When writing to Advertisers kindly mention Horticulture

GREENHOUSES BUILDING OR CONTEMPLATED.

Malden, Mass.—Neil Boyle, one rose house.

Detroit, Mich.—Charles Plumb, house 22 x 150.

Louisville, Ky.—Louis Kirch, house 32 x 100.

Chicago Heights, Ill.—H. J. Peterson, additions.

Philadelphia, Pa.—Aschmann Bros., house 21 x 103.

Pen Argyl, Pa.—Walter Garland, range of houses.

Butte, Mont.—Butte Floral Company, range of houses.

Kansas City, Mo.—James Payne, two houses, each 30 x 50.

Parkview Station, Louisville, Ky.—John Skoobanek, one house.

Belleville, Ill.—Gus. W. Grossart, East Main street, one house.

Columbus, Ohio—John R. Hellenthal, rebuilding three houses.

Providence, R. I.—James B. Canning, Smith street, rebuilding.

New Bedford, Mass.—Herbert V. Sowle, Phillips avenue, one house.

Ogden City, Utah—B. Van der Schuit, Volker avenue and 28th street, addition.

PATENTS GRANTED.

1,069,752. Fertilizer Distributer. Andrew C. Wolf, Sterling, Ill.

1,070,072. Cultivator. Leonhardt Sessler, Bottenwailer, near Zumbaus, Germany.

INCORPORATED.

San Francisco, Cal.—Felton Nursery Co., general nursery business. Capital stock, $10,000. Incorporators, E., K. and M. Maida.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade



KING GREENHOUSES

Are built in all sizes and styles to meet every requirement. There is a type of construction for elaborate houses like the one in the picture above—

THE KING CHANNEL BAR HOUSE

Then there are the big vegetable houses covering two or three acres—

THE KING IRON FRAMES

For every day use all florists should know the many advantages of the

KING IMPROVED FLAT RAFTER AND KING PIPE RAFTER POST OR TRUSS GREENHOUSES

The strong, sunny houses easy to heat and easy to work.

KING IDEAL BOILERS

burn soft coal, are smokeless and save 1-3 your coal bill.

Send us a postal and see why our customers say that if it's a greenhouse or greenhouse accessory, it should be a King—the best buy on the market. Tell us what you want

Write for information and designs today

KING CONSTRUCTION CO., 28 KING'S ROAD NO. TONAWANDA, N.Y.

"All the Sunlight, All Day Houses"

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.

Syracuse Pottery Co., SYRACUSE N. Y.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

PATENTS

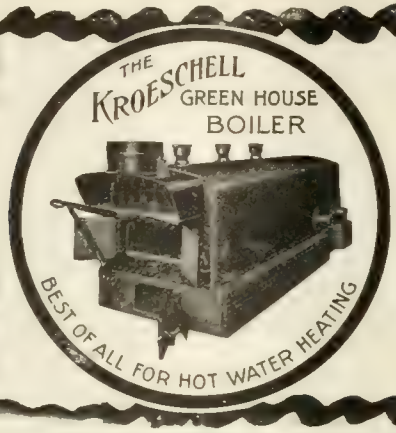
Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

When writing to advertisers kindly mention HORTICULTURE.

What the Users say



KROESCHELL BETTER THAN CAST IRON

Enclosed find photo showing partial view of my range which you are at liberty to use in connection with any advertisement you see fit. In regard to the No. 13 Kroeschell Boiler, we are now using it for the **fifth season. The longer we use it the better we like it.** It has **taken the place of four cast iron boilers** at a **big saving of coal and labor.** No matter what the weather is outside we have no trouble whatever in keeping the temperature just where we want it.

(Signed) A. B. KNOWLTON,
North Grafton, Mass.

Jan. 10th, 1912.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from a **box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses

FULL SIZE No 2

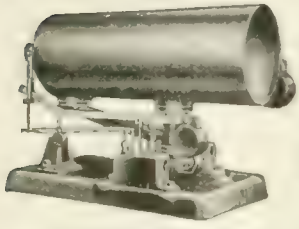
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented No others like it. Order from your dealer or direct from us
1000, 75c postpaid. Samples free.
HENRY A DREER, 714 Chestnut Street, Philadelphia.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.
We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.
It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.



CONSULT US-ON-THE HEATING

ROB'T ROSS - JONES
HARRISBURG, PENNA.

MASTICA
FOR Greenhouse Glass
USE IT NOW
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS

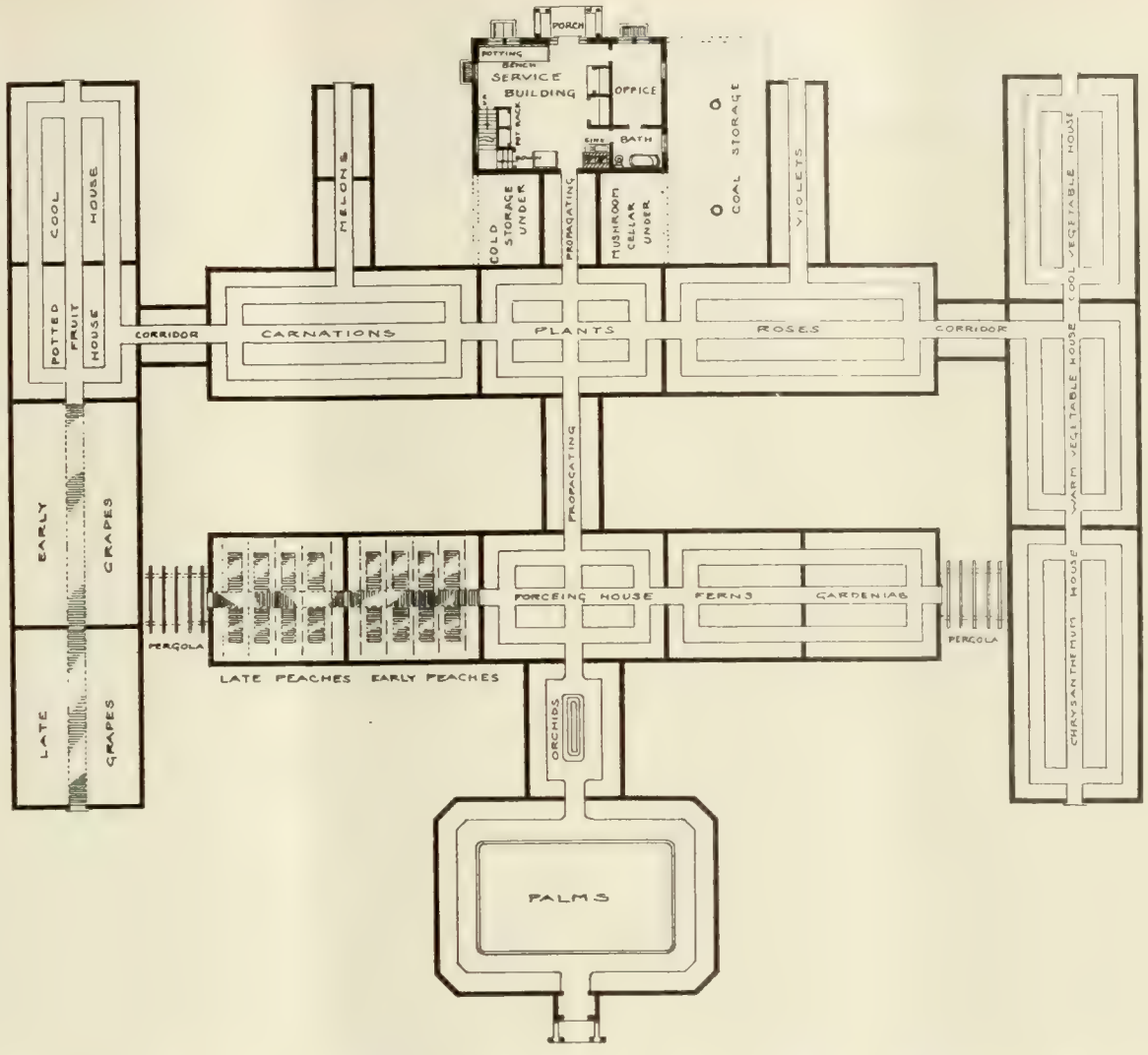
POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.



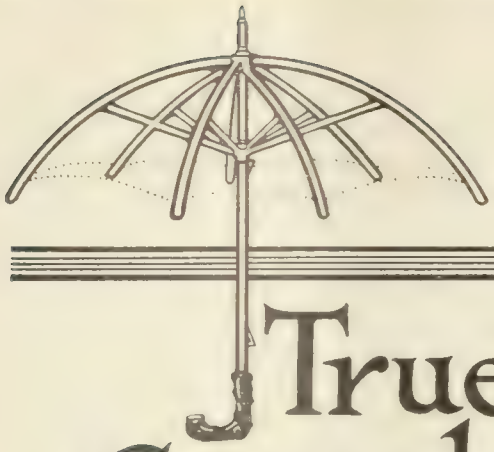
"Large Range of Glass Now Being Erected at Marion, Mass."

LUTTON GREENHOUSES have an established reputation and **WHY NOT?** THIS CONSTRUCTION has revolutionized greenhouse architecture; my competitors will convince you of this when they reluctantly submit you **CURVED EAVE** propositions; they know our method is patented, but recent events have proven that Trusts and Illegal combinations cannot always disregard our laws, might have something to do with the argument placed before you, "That the old method of straight eaves is just as good," and that there is always trouble with the curved glass, etc., etc. Of course there is a great deal of annoyance with **SOME CURVED EAVE HOUSES** but **NOT** with **LUTTON'S,** and **WHY?** Simply because we are not experimenting at your expense. Every Gardener should be familiar with these facts, you owe it to yourself as well as to your employer.

We are just completing the largest modern range of Glass in the State of **MASSACHUSETTS**; it will pay you to visit **MARION, MASS.,** and convince yourself that **LUTTON** methods are original and worthy of your consideration.

WILLIAM H. LUTTON

JERSEY CITY, N. J.





True of U-BAR Greenhouses Only

IN rummaging around in Grandmother's garret did you ever come across an old, old umbrella having heavy reed bows—or frame, instead of the light steel ones now used?

That reed-framed umbrella might well be taken as a comparison for greenhouses built in the usual way. The light, strong, all-steel framed umbrella corresponds to the U-Bar construction with its entire frame-work of galvanized steel U-Bars.

No other greenhouse is so constructed. A frame of steel roof-bars is true only of the U-Bar construction.

This frame gives the advantages of:—

Greater lightness—which means better plants easier grown. More blooms. Repairs, practically nil.

Greenhouses so constructed have a graceful, clean-cut beauty of line unattainable with other constructions.

U-Bar houses have curved eaves. But don't think that every curved eave house is a U-Bar house. It may look like the U-Bar curved eave, but that's the only way it is like it. The only U-Bar greenhouse builder is the Pierson U-Bar Company.

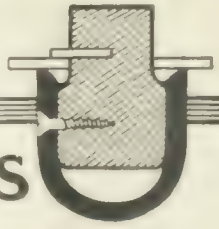
One owner in his enthusiasm, called his U-Bar house "A bubble of glass"—another "the house with the cob-webby frame."

Naturally U-Bar greenhouses cost a bit more than others, and are worth more.

Investigate. Send for catalog. Or send for us. Or both.



U-Bar Greenhouses on the Dr. Leslie D. Ward Estate at Madison, N. J.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE. NEW YORK

CANADIAN OFFICE 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. AUGUST 30, 1913 No. 9



Photo. by courtesy of H. A. Dreer

NEW FRENCH HYDRANGEA MLLE. DE TRIMARE

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..**BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD.** An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing. Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..**BODDINGTON'S CHRISTMAS PINK.** This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..**BODDINGTON'S CHRISTMAS WHITE.** A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..**ANGELINO.** Self pink, new variety	.50	1.50	2.75	4.50
..**CANARY.** Similar to the Christmas White, but [illegible] an exceptionally good yellow	.35	1.00	1.75	3.00
..**FLAMINGO.** Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..**CHRISTMAS METEOR.** Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..**CHRISTMAS STELLA MORSE.** Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..**FLORENCE DENZER.** Pure white	.25	.75	1.25	2.00
..**LE MARQUIS.** This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..**MISS HELEN M. GOULD.** White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..**MISS JOSEY REILLY.** Lilac; very large flowers	.25	.75	1.25	2.00
..**MRS. A. FARENWALD.** Extremely large; dark pink. Very early	$0.75			
..**MRS. E. WILD.** Carmine or dark pink	.25	.75	1.25	2.00
..**MRS. ALEX. WALLACE.** Lavender; very scarce	.25	.75	1.25	2.00
..**MRS. HANNAN.** Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..**MRS. JAMES WHEELER.** Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..**MRS. WM. SIM.** Salmon pink	.25	.75	1.25	2.00
..**MRS. GEO. LEWIS.** Large, pure white, wavy flower	.25	.75	1.25	2.00
..**MRS. W. W. SMALLEY.** Satiny pink	.25	.75	1.25	2.00
..**MRS. F. J. DOLANSKY.** Daylight pink	.25	.75	1.25	2.00
..**MRS. CHAS. H. TOTTY.** Sky blue; late	.25	.75	1.25	2.00
..**MRS. ZVOLANEK.** Blue, variegated; good for variety	.50	1.50	2.75	5.00
..**ORANGE BIRD.** Orange-rose. One of the best [illegible] varieties	.50	1.50	2.75	4.50
..**PINK BEAUTY.** Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..**WALLACEA.** Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..**WATCHUNG.** Pure white	.25	.75	1.25	2.00
..**WINTER CHEER.** Waxy, large white flower	.50	1.50	2.75	4.50
..**WM. J. STEWART.** Blue self	.35	1.00	1.75	3.00
..**ZVOLANEK'S PINK.** Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY ..... STATE .....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

BRILLIANCY

We have an exceptional fine lot of nice clean Brilliancy Coleus in 2-in. pots, for immediate shipment. With its handsome, bright, luxuriant foliage this is recognized as a leading Christmas plant when grown in 4 and 5-inch pots. The color is a bright carmine, shading off to a deep maroon, the margin being yellow and green, the whole leaf having a rich velvety lustre.

Strong plants from 3 inch pots, $3.00 per 100, $25.00 per 1,000

BEGONIA – *Glorie de Chatelaine*

Dwarf compact grower, always full of blooms of a lively rose color; a grand winter bloomer; an easy grower.

2 inch plants 75 cents per dozen, $4.00 per 100

HARDY ENGLISH IVY

Strong 2 inch, $2.00 per 100, $8.75 per 500, $15.00 per 1,000

GERANIUMS

Over 300,000 for immediate shipment, from 2 and 3-in. pots. Let us book your order for future shipment.

R. VINCENT, JR. & SONS CO. . . . White Marsh, Maryland

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. also Bedford **BROOKLYN, N. Y.**

LIST OF ADVERTISERS

Page

Advance Co. ....
Albany Cut Flower Ex. ....
Alves, J. K. ....
Anderson, S. A. ..313
Aplone Mfg. Co. ..324
Aschmann, G. 296
Atlanta Florist Co. 316
Ayres Co., S. Bryson ....
Bedgley Reidel & Meyer. 318
Balsey, Harry ...304
Barnard, W. W. Co. ....
Barrows & Son ..296
Bayersdorfer, H. & Co. 315
Bay State Nurseries 295
Bloomingdale's ..312
Bobbink & Atkins 305
Boddington, A. T. 294-306
Bolgiano & Son, J. ..309
Boston Florist Letter Co. 316
Boston Flower Exchange 319
Brock, J. & Son ....
Breck - Robinson Nurseries 306
Breed, Edw. W. ..305
Breitmeyer's, J. Sons 312
Bryan, Alonzo J. ..306
Burnett Bros. ....
Burpee, W. A. & Co. 309
California Florist 313

Page

Carbone 313
tion Co. 316
Clarke's D., Sons 312
Clark, Everett B. Seed Co. 309
Cooke, Geo. H. ...314
Cowee, W. ....
Craig, R. & Co. ..305
Dards 312
Dawson, H. S. ...295
Detroit Flower Pot 304
Dorner & Sons Co. 304
Dreer, H. A. 307-325-326
Dunlop, John H. ..313
Dysart, R. J. 318
Eastern Nurseries 295
Edwards Folding Box Co. 316
Elliott's, W., Sons 310
Eppstein, Julius. ..313
Ernest, W. H. ..325
Esser, C. H. ..326
Eyres 312
Fairfield Landscape & Nurseries 305
Farquhar, R. & J. A. 304
Fottler, Fiske, Rawson 318
Forrest, Frank H. 313
Fottler, Fiske, ...

Page

Froment, H. E. ..318
Galvin, Thos. F. ..313
Gasser, J. M. ....
Goodsell, P. H. ..305
Grey, T. J. Co. ..309
Gude Bros. Co. ...312
Hail Association ..326
Hall & Robinson ..313
Hammond Paint and Slug Shot Works ....
Hart, Geo. B. 319
Hauswirth, Jos. ....
Heinecken, Otto. ..309
Henderson, A. 305
Hess & Swoboda ....
Hews, A. H. & Co. ....
Hill, E. G. Co. ...304
Holland Nurseries ....
Hilfinger Bros. ...325
Hitchings & Co. ..326
Holm & Olson. ...312
Hudson Carbon Co. ....
Industry Moss & Peat Co. 304
Jacobs & Sons, S. 325
Jerolaman, H. 306
Johnson, J. Oliver 308
Johnston Bros. ...313
Jones, R. ....
Ross ....
Kasting, W. F. Co. 319
Keller, J. B. Sons 312
Kelway & Son. ...308
Kervan Co. ....

Page

King Construction ....
Kramer, F. H. ...313
Kroeschell Bros. ..325
Kuebler, W. H. ..318
Lager & Hurrell ..304
Lakeview Rose Gardens 304
Lange, A. 313
Lemon Oil Co. ...324
Leonard Seed Co. ..308
Leuthy, A. & Co. ..296
Lockwood & Co. ....
Lord & Burnham Co. 328
Low & Co., Stuart ....
Lutton, W. H. ...327
MacMulkin, E. ...313
May & Co., L. L. ..313
McConnell, Alex. ..312
McCarthy, N. F. Co. 316-319
McCray Refrigerator Co. 315
McHutchison & Co. ....
McKenna & Sons, P. 313
McKenzie, John. ..295
McManus, Jas. 318
Michell's Seed House ....
Mount Desert Flower Ex. 316
Millang, Chas. ...318
Miller, E. S. 309
Montreal Floral Ex. ....
Moore, Hentz & Nash ....
Murray, Samuel. ..312
National Nursery ....

Page

N. Y. Stable Manure Co. ....
Niessen, Leo Co. ..316
Oechslin, Frank. ..305
Orchid Growers' Exchange ....
Park Floral Co. ..312
Parker, W. J. & Son ....
Parshelsky Bros. ..326
Pelicano, Rossi & Co. 313
Peter the Florist 313-314
Peterson Machine Co. ....
Pfaff ....
Pierce Co., F. O. ..326
Pierson, A. N. ...304
Pierson, F. R. Co. ..295
Plant Food Co., 20th Century. ...324
Poehlmann Bros. Co. 316
Pollworth, C. C. ..312
Pulverized Manure Co. 325
Quaker City Machine Co. 326
Reed & Keller 318
Reinberg, Peter. ..316
Rice, M. Co. 313
Robinson Co., H. M. ....
Rogers Co. 304
Roland, Thomas. ....
Rolker, A. & Sons ....
Rosery, The ....
Ryan & Son 304
Scarff, John 295
Scollay Mfg. Co. ....
Sharp, Partridge & Co. 326

Page

Sheridan, W. F. ..318
Siebrecht, Geo. C. ..318
Siggers & Siggers 325
Skidelsky, S. S. & Co. 309
Smith, P. J. 318
Smith & Co., E. D. 306
Smith, W. & T. Co. 296
Smyth, Wm. J. ..312
Sprague, J. H. ...304
Standish & Noyes Lumber Co. 326
Syracuse Pottery Co. 325
Totty, Chas. H. ..296
Thorburn, J. M. & Co. 309
Tracy & Swayne 318
Valentine, J. A. ..312
Van Assche, P. ..325
Vick's, Jas. Sons. ..309
Vincent, R. Jr. & Sons Co. 295
Wants, For Sale. ..324
Ward, R. M. & Co. 296
Weeber & Don. ...309
Welch Bros. 316
Whittier & Co., W. B. 305
Wilson, Robt. G. ..312
Wood Bros. 296
Woodrow & Marshall ....
Young & Nugent 312
Zangen, O. V. 309
Zinn, J. A. 313
Zvolanek, Ant. C. ..309

For Buyers' Directory and Ready Reference Guide

See Pages 320, 321, 322, 323

WE SELL LILY BULBS

which are produced in the best fields in Japan only. Fields which are under the highest possible state of cultivation. Our policy is to solicit business from those buyers who are in the market for the best bulbs. There are just so many of the best bulbs in the market and there are enough buyers of high grade lily bulbs to consume them so it's a matter for you to get next to the good stuff, that is if you really want quality. Horseshoe Brand Giganteum is the foundation of all good Easter lilies. They are cultivated with the greatest possible care in fields well fertilized, hand weeded, disbudded at the proper time and when they are fully matured, are packed in cases for the markets. Deliveries are made in the various cities in the U. S. A. and Canada. You cannot possibly get better lily bulbs no matter where you buy or what you pay. Send for the Book of Bulbology with prices.

Cold Storage Giganteum on Hand for Delivery any Time. *Order Now*

Formosa Lily Bulbs, Just Arrived—Stock Fine. *Write for Prices.*

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, . . . NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St. Weehawken Heights P. O. Box 3 Boston, R. I.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Vines, Evergreens, Evergreens and Roses

W. & T. SMITH COMPANY, Geneva, N. Y.

ROSE STOCK!

"Mrs. Geo. Shawyer"

Grafted or Own Root

$30 per 100; $250 per 1000

	Per Hundred
American Beauty, 4 in.	$12.00
Hillingdon, 4 in.	10.00
Sunburst, 4 in.	15.00
Pink Killarney, 4 in.	8.00
500 Radiance, 3 in.	8.00

CHAS. H. TOTTY

MADISON, N. J.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St. PHILADELPHIA, PA.

When writing to advertisers kindly mention HORTICULTURE.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

Bale 225 lbs., lots or less.

Write for prices and terms

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St. NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale, —Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in.; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100 $40 per 1000

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bouvardias

All bouvardias should be lifted before the nights become too cold. These plants do well in five inches of soil. A good compost is three parts fibrous loam to one part of well decayed cow manure. Lift the plants with good balls of soil and carefully transplant to a sunny bench. If this work is attended to properly the plants will show no bad effects. A foot apart is little enough for any of them. It is easy with almost any temperature to get the first crop of bouvardias, but not so easy to get them to make a growth and a profitable crop of flowers. Unless they are kept in a night temperature of at least 60 degrees and syringed daily they will just stand still after their first crop is over. As soon as they are planted give thorough watering, followed on sunny days by light spraying, until the plants have taken hold in the new soil. Don't overlook the staking. If they have made any growth at all outdoors they need support of some kind, whether by stakes or wires across the benches.

Care of Carnations

Recently planted carnations will now need the closest attention. As the plants gain in size and vigor of growth, so also must the allowance of moisture about their roots be increased. Describe a wide circle from day to day until, before long, all the soil may receive water in equal and regular quantities. Arrange to have at least two good weedings and cleanings of the soil. Some soils become baked and crusted over much more quickly than others and need more cultivation. The adjustment of supports for those farthest advanced is now in order. Any one of the numerous devices will serve the purpose. Supports that leave unrestricted room for the natural spread and upright growth of every individual plant, within the confines of a stout wire circle, are to be preferred to anything holding the shoots in position by direct and usually too firm fastening, or those requiring frequent readjustment.

Housing Tender Plants

While it may be some time yet before we have any frost it never pays to keep tender plants outside after the first week in September, for their growth and well-doing is hampered by the cold nights which we are bound to have at this time. All plants such as palms, ferns, etc., should be housed early in September, as when exposed to the chilly air of our cool nights they soon become inactive at the roots and their foliage lose its dark green color. All stock planted out in the field or border such as abutilons, acalyphas, crotons, dracaenas, ficus and many other foliage plants, should be lifted and potted. Give them a rather close and warm house and keep shaded for about a week when they will have become well established and can then be given full sun. Keep the air and plants moist by frequent syringings during the day.

Odontoglossums

Odontoglossums that have been grown in a north house and kept as cool as possible should now be showing up well. To handle these orchids is no easy task at this season of the year as they require continued watchfulness in ventilation, watering and cleanliness. We are now at a season when they will stand any amount of ventilation during the day and also as much at night as will be safe to leave on. If they are not given plenty of ventilation now they will suffer severely. Watering is a point in their culture which requires very careful attention. Care should also be taken never to let the compost remain dry for any length of time, yet on the other hand they should never be kept in a soaked condition. Either extreme will destroy all hopes of pulling these orchids through the fall in good shape. To keep them absolutely clear of scale it will be necessary to sponge them with a nicotine solution, aphine or fir tree oil about every two weeks.

Propagating Geraniums

It is well to start in a little early with propagating geraniums so that another good crop of cuttings may be had before frost puts a stop to outdoor growth. One of the advantages in using the propagating bench is that the cuttings will take up less room, the accommodation being usually required at a time of the year when most of us are short of room. Another way to root cuttings is to use flats, either filled with sand or a mixture of loam and sand. The flats can either be placed on benches or shelves or in frames out of doors. Sturdy, short-jointed top cuttings from three to four inches in length make without question the best stock for next spring's marketing. It matters little which way they are struck, now or a month later, they will be good geraniums if potted, repotted and stopped in time and given room, light and air in a house averaging 55 degrees of heat. After the first watering, which ought to be a good one, keep the sand on the dry side. The only shading required might be when the weather is extremely hot. During the first week the cuttings are in the sand, they should only be given shade during the noon hours, but after the first week no shade is required; in fact they are better off without it.

Stevias

Do not leave your stevias too long before you lift them as they are very easily injured by even a slight frost. Pot them into good soil and place them where they have some shade for a few days when they will stand full sun. You can keep them outside for some time yet as they cannot tolerate anything like a warm greenhouse. When brought in under glass they should be kept just as cool as possible. These are very indispensable plants so see that they have good care.

Mr. Farrell's next notes will be on the following: Amaryllis for Christmas, [illegible] Lilies, [illegible] Chrysanthemums; Rambler Roses; Potting Evergreens.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Summer Pruning Peach Trees

Those houses that have had the crop cleared for several weeks and have been left to themselves doubtless will have made some top growth. Any trees that have not made growth must have been cropped very heavy or else the roots are very stagnant. Similar to vines, it does them good to grow for a while but the time is ripe to think of the buds for next year. Not only the superfluous growth can be removed but the whole tree gone over and all old worn-out or overcrowded wood removed. This has got to be done anyhow when the winter pruning comes on and by doing it now the wood remaining has the benefit of more air and sun to ripen it up. Another advantage to the pruner is that he can see what the tree looks like with its foliage, which, if all the pruning is left until winter, he can only surmise. Where it is necessary to remove a piece of wood large enough to make a noticeable hole, loosen one or two of those above and draw them down to fill the gap. It is not intended that this pruning should do away with the winter pruning, it is only to remove worthless wood hampering the development of next year's crop.

Prepare to Pot-up Trees

The time is not far distant when all the trees growing in pots must receive their annual overhauling. This is quite a job where any quantity are grown and needs preparation, to save unnecessary delay after once commencing. A supply of pots is needed—enough of all requisite sizes to allow so many to be in the hands of the washer and taking time to dry. Look over the stock on hand and if deficient order at once as it may take a little time to get them through. It is also better to use pots that have stood out in the weather for a while rather than new ones direct from the factory for, even if sprayed over a time or two before using, they will still absorb a lot of moisture. Always figure on giving the trees the smallest shift possible; nothing is gained by pushing them on into large pots or tubs. After several years' forcing it may be advisable to use small tubs. Look these trees up and order the tubs in suitable sizes at once. Take special care of all broken pots found around. These will be in big demand, nothing making such satisfactory drainage for this work as crocks.

Feeding Strawberries

When the strawberry plants have filled out the pots with roots commence to feed them as they have a lot to do in a short time. It can be given them in either liquid form or sprinkled on the surface and pricked in. Start them off with some weak soot water; this can be followed up with weak cow manure water, gradually working it up stronger. The same applies to dry manures. Take care to keep this latter off the foliage. Never apply manure when the plants are dry and remember clear water should be given the plants an equal number of times as the manure water.

Making up Mushroom Beds

Immediately the manure is ready, have the beds made up. Any delay means a loss to the manure. The same morning that it is purposed to make up the beds mix in a little virgin loam which has passed through a ¾-inch seive, say about one part of soil to every six of manure. This will help to steady the heat and make it more lasting. Ram the manure as firm as possible into the benches, building it up in tiers six inches in thickness. It cannot be made too hard so pound it down with brick or rammer. When finished the beds should be from 15 to 18 inches thick. Even it off nicely, leaving it about three inches below the proper height so that the casing of soil can go on after spawning. Place a thermometer in the bed, as it will commence to heat up at once. Notice this at least twice daily. It will continue to rise for about ten days, probably registering 100 to 110 degrees before any recession takes place. Wait until it recedes to 85 degrees to 80 degrees before spawning.

Melons for Christmas

To have ripe melons for Christmas a sowing should be made September 1st. With good melon-growing weather (plenty of sunshine) through the fall this will have them ripe a week or ten days previous to Christmas Day but should it be any way averse they will make it all right. At this time of year it is a very easy matter to hold them up for a week or more just as they are turning, so be on the safe side. Through the summer months the varieties need not be studied to any great degree for if a melon is to grow at all it surely must do so through the good summer weather. Not so with the sowings from now on. Many little troubles can be averted if the right ones are put in now. That old and tried friend, Hero of Lockinge, has not got an equal in the field for winter work. Others there are that are good but if only a few are to be grown bank on "Hero." It grows well through any dull weather and sets its fruit well (two should be the limit on these). The flavor, too, is good for winter fruit. Another one we always include is His Eminence, a white flesh of good habit which comes in several days after Hero. Superlative can also be included; it makes one of the best table fruits.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Side Ventilators in September

With the air full of cold draughts, it is well to keep the side ventilators closed from now on, unless of course they are in the hands of the expert who knows how to handle them. These cases are very rare, however, and we find it best to keep the ventilators closed and run no chances. Doors that had been left open during the hot summer months will now be safer if kept closed. Many will say that this is all "bosh" but experience has taught us that we may escape harm the nine times, and then get it good and proper the tenth time. A drop of prevention is better than a whole gallon of cure.

Syringing

With the coming of the fall season, all syringing should be done during the morning hours of the day, if at all possible. Should it be necessary to syringe in the afternoon, take great care to shake the plants well to have the plants well dried off by night. Lime should never remain unapplied after either syringing or watering, as this is essential in helping to maintain a pure dry atmosphere around the bottom of the plants where spot has a habit of establishing itself and gaining a good foothold before it is finally discovered.

Mulching

Mulching or top dressing will now be in order and, as the whole season's success depends partly on the way this is done, it pays to be extremely careful to have this done properly. A light dressing of bone meal may be applied to the benches before any of the manure is applied. This should be rubbed into the soil very lightly, so as not to disturb the roots in the very least, for while the plants are making roots the plant itself is not growing. Therefore when you tear up the roots with deep scratching, the plants receive a bad check, from which it will take some time to recover. This may not be observed by every one, yet it is the truth. Do not apply too much bonemeal, or too much manure. Better apply a little at a time, and oftener. We find it best to apply just enough to cover the benches very nicely, and then give more as soon as the plants consume the largest part of it, as they soon will if they receive proper treatment and are kept growing all the time.

Lime

Never apply any lime to newly mulched benches. The lime thus applied would free a large amount of the ammonia contained in the manure, and would no doubt prove harmful to the plants. To say the least it would not be of any benefit, and as good cow manure is rather expensive, it is not to the good of the grower to waste much of it. Most growers will shrink from buying a new piece of hose that is really needed and would prove a good investment, but will think nothing of a heap of manure exposed to the weather and slowly going to waste. It is surprising how much will go to waste, too, slowly and unnoticed in most cases.

Using Cracked Ice

With the more valuable grades of roses and other cut flowers it will be a very good investment to use a little cracked ice in the shipping boxes, being very careful of course to see that no ice comes in contact with the flowers themselves. Apply the ice to the stems of the cut blooms, if you use it.

Burning of the Foliage After Mulching

This is chiefly due to the fact that the manure apply is either too hot or too green. As often as we advocate using manure a year old, or at least old enough to become well decomposed, we find much manure applied right out of the stable. This of course has to be handled just so, or serious harm may result. To be on the safe side it is well to air the houses quite freely right after the mulch is applied. Sometimes the plants are real dry, which is often responsible for the burning of the foliage. We like to have them on the dry side when we mulch, so we can water thoroughly directly afterwards. We generally scrub the houses at the time, this making the air much more damp and helping to keep the fumes of the manure from injuring the foliage.

LANCASTER COUNTY FLORISTS' CLUB.

Asters, the subject of the last meeting, seems to have been a good leadstone as almost four-fifths of the members turned out and quite a nice display was made of cut blooms. W. K. Denlinger, of Vintage, Pa., had perhaps the best finished flowers, three varieties of Vick's Royal purple and white and pink Early Branching. John R. Shriner of Greenland had an extra fine vase of the Crego type. B. F. Barr exhibited Vick's Violet King and Imperial Giant Purity, also Hohenzollern rose pink.

In the discussion which followed, a liquid solution of paris green was recommended as having been successfully used for the elimination of the black beetle; the use of an infusion made from quassa chips was also recommended.

The bug that stings the plant and ruins it by stunting seems to be almost beyond control, some varieties being more susceptible than others. One grower advocated the planting of a row of the variety "Semple" every sixth or eighth row as they seemed especially fond of this variety and would not disturb the others so much if they had these to work on. Another grower advocated growing them under muslin or canvas the same as some growers use for tobacco. This method had been tried on a small scale and not only were the bugs kept out, but the quality of the asters was much improved.

The matter of yellows has given considerable trouble in this section and no known remedy has yet been found for this, but the use of low ground is to be avoided and planting continuously on the same ground should not be followed.

Getting seed true to name is another problem. One grower said that he bought seed supposed to be Vick's Early Branching and planted about 50,000 of them and they were absolutely worthless and a total loss, being no more Early Branching than he was a millionaire from money made out of the florists' business.

The meeting then adjourned to meet September 18th, when carnations and chrysanthemums will be the subject for exhibition and discussion.

ALBERT M. HERR, Secretary.

HORTICULTURE

VOL. XVIII AUGUST 30, 1913 NO. 9

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION – New French Hydrangea Mlle. de Tremault.

NOTES ON CULTURE OF FLORISTS' STOCK—Bouvardias—Care of Carnations—Housing Tender Plants—Odontoglossums—Propagating Geraniums—Stevia—*John J. M. Farrell*..... 297

FRUIT AND VEGETABLES UNDER GLASS—Summer Pruning Peach Trees—Prepare to Pot-Up Trees—Feeding Strawberries—Making Up Mushroom Beds—Melons for Christmas—*George H. Penson*..... 298

ROSE GROWING UNDER GLASS—Side Ventilators in September—Syringing — Mulching — Lime — Using Cracked Ice—Burning of the Foliage After Mulching—*Arthur C. Ruzicka*..... 299

GROWING FIGS AT EXPRESS RATE—*Edwin Jenkins*, Illustrated..... 301

THE MINNEAPOLIS CONVENTION—Concluding Reports—Report of Committee on Final Resolutions—The Bowling Contests—Here and There..... 302

The Outdoor Exhibit—Exhibit of Aphine Mfg. Co., Illustration..... 303

American Gladiolus Society..... 306

The Minneapolis Convention Group, Illustration.310–311

OBITUARY—Charles M. Hooker—Charles Krombach—Charles Crawford..... 308

OF INTEREST TO RETAIL FLORISTS:

Steamer Departures—New Flower Stores..... 312

Flowers by Telegraph..... 313

CLUBS AND SOCIETIES—Lancaster County Florist Club..... 299

American Carnation Society—American Association of Park Superintendents—Massachusetts Agricultural College—North Shore Horticultural Society..... 314

Lenox Horticultural Society..... 315

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati, New York..... 317

Philadelphia, St. Louis..... 319

MISCELLANEOUS:

Greenhouses Building or Contemplated..... 308

Starting Vegetables in Cold Frames..... 308

During Recess..... 308

St. Louis Notes—Incorporated..... 313

The Visit to Michell's..... 319

Exactness in the prize schedule

The controversy over the intrinsic value of a cup donated for award at a recent exhibition is only one of several incidents which emphasize the need of extreme care in the wording of a prize schedule, as to what is offered, what it is offered for and what the conditions are. We recall a case where a prize was offered for hyacinths in "pans" and much hard feeling was engendered when the judges disqualified a leading entry because azalea or "half pots" were used. Very often the admission or exclusion of certain foliage or flowers as accessories to a display of cut blooms leads to endless argument and dissatisfaction because of divergent interpretations of the schedule terms. These incidents, with their often unpleasant outcome admonish us that we cannot be too explicit in the wording of a prize schedule, every provision of which should be stated in terms that admit of but one construction by exhibitors, judges and all others concerned.

A turn in the tide

The appeal of the retail florist trade, as represented by the Telegraph Delivery Association, for some special recognition in the councils of the S. A. F., discloses a somewhat significant turn in the tide of sentiment towards the national society. The lack of interest and widespread indifference regarding the national organization on the part of the retail element has for many years been a subject of wondering comment and a certain amount of rather severe criticism. Now they "clamor at the gates," supporting their overture with a very practical and persuasive argument, viz., that their organization is the only one in existence which makes membership in the S. A. F. a pre-requisite to admission and that to this fact is due the addition of some forty new members to the national society during the past year! Their argument is certainly the real thing—"all wool and a yard wide." In principle it is substantial proof of the soundness of the conviction, which we have always held and often reaffirmed, that the kindred societies, instead of being a disintegrating menace to the S. A. F., should be regarded as useful adjuncts and feeders for the great central body, crystalizing forces which, rightly directed, would bring to the S. A. F. an accession of strength and influence otherwise impossible of realization. We hope the Executive Board will give most careful study to this subject not only in its bearing upon the immediate proposition but in its broader effect upon the future relationship between the S. A. F. and the many other bodies organized for work on special lines.

At the parting of the ways

The executive committee of the American Carnation Society found itself with a rather difficult problem on its hands. At the session in Minneapolis, in which quite a number of the members of the Society participated, it was shown that since the society abandoned its independent midwinter meeting and exhibition and merged its activities with the other special societies at the National Flower Show in Boston, its membership and interest had noticeably fallen off and the conclusion was forced upon the society that it must get back to its former custom in order to restore its prestige. Then developed a diversity of views as to how this could best be accomplished—whether by accepting the invitation to convene at the Illinois State College where they were offered many unique privileges for scientific and practical experiment and comparison, or by meeting in some city such as Cleveland where accessions to the membership might be gained from the commercial carnation growers. The latter course was finally chosen but it is by no means certain that the society would have been any better off today had it adhered to its former custom and stood aloof from the National Flower Shows. No argument is needed to convince far-sighted observers that the establishment of the National Flower Show and the entry of the Experiment Stations and State Colleges into the domain of floriculture, not to mention the tremendous educational influence of the trade papers, have a direct bearing upon the relationship of all the Societies to the trade and to each other, and must henceforth be taken into account when seeking fields for useful society activity.

GROWING FIGS AT EXPRESS RATE

These fig trees here illustrated chosen at random from a batch of fifty plants in ten-inch pots, represent what is possible in the line of rapid development from the cutting to the mature fruiting plant.

Photograph A is a plant of Negro Largo (this variety while not such a rampant grower as some of the other kinds is perhaps the most satisfactory of all for pot culture and of the finest flavor). In photograph B the center plant is the variety Brown Turkey, while the two outside ones are Negro Largo. The Brown Turkey plant is four feet and six inches high (pot included) and has been twice pinched, while plant A is three feet six inches high and carries some two dozen fruits in various stages of development. This batch of fifty plants have been grown in a little under eight months (December to July) from cuttings of ripened wood from four to six inches long, rooted in sand with a bottom heat of about 80 degrees and top heat of about 60





degrees. In three to four weeks roots one to two inches long had developed and they were potted into 3-inch pots and plunged in the same sand and with the same bottom heat as had been used for rooting. From January to April the plants were forced along by keeping hot bed sash over them on the greenhouse bench and by maintaining the bottom-heat at from 75 to 80 degrees. By May 1st they were in six-inch pots and from that date on have been fed a varied diet of chemicals and organic manure. Phosphate of potash, one ounce dissolved in a gallon of water was administered for a period of three to four weeks to promote fruitfulness while nitrate of soda and weak doses of liquid cow manure were used to promote growth. Icthemic guano was another portion of their diet. Constant and careful feeding coupled with a steady temperature of about seventy degrees at night and all the air possible in the day without lowering the temperature sums up all the points of growing good sized fruiting figs in eight months from cuttings.

Edwin Jenkins

Lenox, Mass.

The annual report of the Public Parks Board of Winnipeg, Canada, for 1912 is an attractive volume of 96 pages. Superintendent Champion gives interesting details of the work of the year, which show that a high standard of park maintenance is being followed.

THE MINNEAPOLIS CONVENTION

Concluding Reports

Our convention report, published last week, carried the story of the proceedings up to the close of the session of Thursday morning. Thursday afternoon was devoted to the bowling contests and Thursday evening to the ladies' reception and dancing at the Hotel Radisson, both of which affairs were eminently successful in every respect. On Thursday afternoon the present and past officials of the S. A. F. and the Ladies' S. A. F. enjoyed a most delightful sail on Lake Minnetonka to the beautiful villa and grounds of Mr. C. G. Goodrich, who, assisted by Mrs. Goodrich and A. Weber, the superintendent of the grounds, extended a most cordial and hospitable welcome. The result of the bowling contests will be found in another column.

On Friday morning the Florists' Hail Association held its annual meeting. At 11 A. M., the S. A. F. convened in regular session, the principal topic for consideration being the Executive Board's report recommending that exhibits of artificial flowers be excluded from the trade exhibitions and flower shows. The debate was pointed and strenuous while it lasted, which was not long, for it was cut short by a very decisive vote to lay the matter on the table and thus a score or more of trenchant speeches that had been in the incubator for weeks met a prenatal death.

Leonard Barron's lecture on Friday afternoon with stereopticon illustrations giving "Glimpses of American Gardens" was interesting and instructive. Mr. Barron is a good talker and held his audience closely throughout. Following him, Col. D. O. Lively gave a graphic account of the preparations for a huge horticultural department at the Panama-Pacific Exposition which, however, was listened to by a disappointingly meagre audience.

Friday evening's concert at the Lake Harriett roof garden by the Minneapolis Park Orchestral Band, complimentary by the Board of Park Commissioners, was one of the happiest occasions in the history of S. A. F. conventions. The evening was glorious and the entire scene, the pavilion with its festoons of electric lights, the mid-summer night sky overhead, the music and the merry throngs, was one never to be forgotten. A valse reveric, "In a Rose Garden," had been specially written and dedicated to the S. A. F. by the conductor, Wm. Warvelle Nelson, and the 11 numbers on the program were listed in a humorous way as the productions of eleven of the active spirits in the Society's work, namely: "The Land of the Mountain and the Flood," Farquhar; "La Boheme," Young; "In a Rose Garden," Totty; "In a Clock Store," Peirce; "Scenes from Switzerland," Wirth; "Southern Airs," Vincent; "Du Lieber Augustin," Poehlmann; "Put Me Off at Buffalo," Kasting; "Rhyfelgyrch Gwyr Harlech," Evans; "Carrillon," Roland; "Albion," Bunyard. The "Clock Store" was an irrisistibly funny thing with its clocks ticking, striking and cuckooing in the most realistic manner. At the middle of the performance, President Farquhar ascended the band stand and in a very felicitous speech presented Conductor Nelson with a gold-headed ebony cane, the gift of the officers and directors of the S. A. F. Turning to descend after having performed this pleasant duty, President Farquhar found the way blocked by W. F. Gude, who proceeded to tell him how much the Society thought of him and in token of the esteem of his fellow members placed before him a chest of silver table-ware. The response of the surprised recipient was heartfelt and deeply appreciative. Everybody cheered and cheered and it was altogether a most inspiring occasion, including Harry Bunyard's inimitable impersonation as leader of the band in the final selection.

Saturday was the Minneapolis and St. Paul Florists' Day. The visitors were their guests at Tonka Bay for the entire day. It was a well-planned and well-carried out picnic, with music and games and refreshments without limit. Like everything else connected with this memorable convention, it passed off without a hitch and with only one adverse incident, which, happily, had no serious result. During the tub races an overcrowded boat landing gave way, precipitating a number of spectators into the water, including August Poehlmann, who was completely soused and had to don a Minneapolis Club baseball uniform while his clothing was being dried. The tug-of-war between East and West was the culminating excitement and the West was victorious.

Report of Committee on Final Resolutions.

To the S. A. F. and O. H. in convention assembled at Minneapolis, Minn.

Your Committee on Final Resolutions beg to submit the following resolutions and move their adoption, namely:

Whereas, The participants in the Twenty-ninth Annual Meeting and Exhibition of the Society of American Florists and Ornamental Horticulturists, members, their ladies, and guests, feeling that they have enjoyed a most pleasureable week in Minneapolis, and have been surrounded by all that would make their stay enjoyable and tend to make their deliberations most productive of good, desire to give some fitting expression to their gratitude for the courtesies and attentions shown them; therefore, be it

Resolved, That the Society of American Florists and Ornamental Horticulturists tender by rising and unanimous vote their thanks and appreciation to the S. A. F. and O. H. Convention Committee of Minneapolis and St. Paul, composed of the members of the Minneapolis and St. Paul Florists' Clubs, through its chairman, Theodore Wirth, and the various committees all of whom have performed their labor of love most enthusiastically and successfully and to our entire satisfaction; also to the Minnesota State Florists' Association and the Minneapolis Florists' Club who have as organizations co-operated with the General Convention Committee; further

Resolved, That we tender a rising vote of thanks and appreciation to the Hon. Wallace G. Nye, who so cordially welcomed us to the city of Minneapolis; to the Ladies' Reception Committee; to the Honorable Board of Park Commissioners, through whose valuable assistance the labor of the Superindendent of Parks was rendered so effective in the excellent out-door exhibit which was so pronounced and appreciated a feature of this convention; also to the daily press of the city for their intelligent reports of our proceedings.

Respectfully submitted,
WM. J. STEWART,
MICHAEL BARKER,
A. T. DELAMARE,
Committee.

THE BOWLING CONTEST.

Team Contest.

1st Prize. NEW YORK.				
Donaldson	221	159	191	571
Pierson	109	134	156	399
Kessler	198	144	148	490
Miesem	168	145	146	459
Chadwick	159	144	123	427
Totals	855	726	765	2346
2nd Prize. CHICAGO.				
Olson	140	166	171	477
McKellar	118	122	148	388
Goertsch	95	108	76	279
Asmus	146	155	138	439
Zock	149	127	188	464
Totals	648	678	721	2047
3rd Prize. MILWAUKEE.				
Ruch	157	175	154	486
Pohl	139	122	112	373
Zweifel	123	108	88	319
Greiger	121	116	104	241
Holton	178	150	173	501
Totals	718	671	631	2020
4th Prize. MINNEAPOLIS.				
Will	134	139	137	410
Ruedlinger	122	116	126	364
Reeik	136	138	127	401
Doestch	131	129	128	388
Meyer	133	127	102	362
Totals	656	649	620	1925
5th Prize. OMAHA				
Henderson	107	154	121	382
Hess	102	132	103	337
Sorenson	129	104	97	330
Swoboda	101	123	110	335
Frey	99	112	150	361
Totals	538	625	581	1744

High Men on Teams.

Donaldson, New York, 571; Olson, Chicago, 477; Holton, Milwaukee, 501; Will, Minnesota, 410; Henderson, Omaha, 382.

High Game—New York, 855. Most Strikes—New York, 40; Most Spares—New York, 56. Most Railroads—New York, 17.

Diamond Medal.

C. J. Graham	187	174	204	565

Men's Individual Contest and Prizes.

Total in Three Games

R. McLennon, 1st, 532; M. Bloy, 2nd, 511; C. J. Graham, 3rd, 508; Geo. Smith, 4th, 496; Emil Leuly, 5th, 483; C. E. Critchell, 6th, 480; R. Rabaley, 7th, 456; W. J. Vesey, 8th, 446; J. D. Wilson, 9th, 440; D. R. Herbert, 10th, 438; O. J. Olson, 436; A. Hart, 429; E. W. Guy, 427; A. Ras-

mussen, 422; Jos. Manda, 417; W. A. Mathis, 415; R. J. Irwin, 409; A. Gustafson, 401; W. A. Cole, 399; C. W. Scott, 393; F. Breitmeyer, 385; H. Quick, 381; F. Meinhardt, 380; A. Poehlmann, 375; A. Longren, 367; O. D. Dysinger, 359; W. K. Henszey, 352; Jul. Roehrs, 353; A. W. Johnson, 350; Wm. Siebrecht, 350; C. J. Michaelson, 347; H. Bachmann, 344; J. Mueller, 341; A. T. Pyfer, 340; Max Kaiser, 336; A. Anderson, 335; F. C. Weber, 332; F. J. Dolansky, 332; C. C. Pollworth, 331; Jas. Sullivan, 330; A. Miller, 308; E. J. Burteman, 281; J. H. Pepper, 270; A. L. Biebinger, 192.

High Game—R. McLennon, 223. Most Strikes—C. E. Critchell, 12. Most Spares—E. W. Guy, 17. Most Railroads—F. Breitmeyer, 10.

Ladies' Bowling Contest.

Total in Two Games.

Mrs. McKellar, 1st prize, 309; Mrs. Desmond, 2nd prize, 234; Mrs. Traendly, 3rd prize, 223; Mrs. Pollworth, 4th prize, 200; Mrs. Manda, 5th prize, 198; Mrs. Rasmussen, 6th prize, 187; Mrs. Asmus, 7th prize, 185; Mrs. Quick, 8th prize, 182; Mrs. Smith, 9th prize, 181; Mrs. Gude, 10th prize, 169; Miss Will, 163; Mrs. Holton, 158; Mrs. Monson, 155; Mrs. Critchell, 153; Mrs. Weber, 152; Miss Meinhardt, 146; Mrs. Ruedlinger, 135; Miss Doestch, 135; Mrs. Zweifel, 131; Mrs. Wirth, 131; Mrs. Gunterberg, 130; Miss Bergestenmann, 129; Mrs. Rice, 128; Mrs. Breitmeyer, 125; Mrs. Coles, 125; Miss Gude, 121; Miss Peterson, 117; Miss Bruening, 91.

High Game, Strikes and Spares—Mrs. McKellar.

Most Railroads—Miss Will.

HERE AND THERE.

A lovely plant was Craig's specimen of the new Nephrolepis Smithi.

The Rice Co. exhibit was amplified and illumined by Robert Shoch's perennial smile.

On Friday the ladies enjoyed an auto ride to St. Paul on invitation of the St. Paul florists.

Among the handsomest plants in the exhibition were a pair of 7 ft. specimens of Dracæna Victoria shown by J. A. Peterson.

The row of gentlemen occupying seats on the platform at the opening exercises of the convention included ten ex-presidents.

On Tuesday, the opening day of the convention, Mrs. August Poehlmann fell while alighting from a street car and sprained her ankle.

H. Bayersdorfer & Co.'s huge display of florists' goods was in charge of S. H. Bayersdorfer, I. M. Bayersdorfer, Martin Reukauf and Sidney Green.

Telegrams were sent by President Farquhar to John Wescott, Robert Craig, J. C. Vaughan and Adam Graham expressing regret at their absence.

Much favorable comment was made on the labels used in the out-door gardens. They were painted grass green and lettered in white and although everything was fully named the labels were not obtrusive in the least.

The Armory with its several spacious and elegantly furnished committee rooms answered most excellently the purposes of an S. A. F. exhibition hall. The view from the gallery above was very brilliant and impressive.

Boston's extreme preparedness to capture the next convention from any and all who might presume to make a rival claim furnished the incentive for many jokes on Boston. It certainly was an invincible outfit if any contest had developed.

The receipt of a special delivery letter from Washington, through W. F. Gude, on Friday, stating that the Department of Agriculture had officially accepted to undertake the rose test garden on behalf of the S. A. F. was received with joyous acclaim.

Henry Emunds, of West End Floral Park, Belleville, Ill., showed an interesting sport from King Humbert canna, having green leaves and yellow flowers with red dots. Mr. Edmunds says that it is a stronger grower and throws up twice as many shoots as King Humbert, the trusses being also much larger. He proposes to name it Queen Helen.

At the Ladies' S. A. F. meeting a national bowling club was organized with Miss Matilda Meinhardt as captain; Mrs. Traendly, secretary; Mrs. Asmus, treasurer. Dues, $1.00. Committee appointed to use all money collected every year to buy prizes. It was also voted that the Ladies' S. A. F. life memberships would be $10.00. Lady joining must be a member of the Society one year. Fund to be kept separate and invested.

The Ladies' S. A. F. held their annual meeting in committee room D of the Armory, Wednesday, at 10 A. M., Mrs. Frank H. Traendly in the chair. The usual order of business was followed. The secretary reported 273 members, with 26 added at this convention, making a total of 299. The treasurer reported receipts of $667.01; expenditures, $457.68; balance on hand, $209.33. At the reception on Thursday evening, Mrs. Maynard in behalf of the L. S. A. F., presented the president, Mrs. Traendly, with a watch bracelet, locket attached. The ladies were entertained to an automobile ride and luncheon at Minikahda Club on Wednesday afternoon, and on Friday the St. Paul ladies entertained all with a ride down the river, serving a delicious lunch.

Among the most effective bedding plants noted by the Boston delegation on their visit to the public gardens at the summit of Mt. Royal, Montreal, was the zonal geranium Heinrich. So brilliant are the flowers of this variety that Alphonse Ricard looks dull alongside. We were informed that it was raised by George Trussell of Montreal. The flowers are semi-double and carried on tall stems above the foliage and in greatest profusion. Champion is another good one, but bearing single flowers. A heliotrope, very low growing and having enormous flat trusses of bloom came in for unqualified admiration. It is known here as "Montreal bedder," but is probably one of the European introductions of recent years. The season in this section of Canada has been very hot and dry and fields and gardens show its effects very plainly.

THE OUT-DOOR EXHIBITS.

This unique feature of the Minneapolis convention we illustrated and commented on in a general way in our issue of last week. The following details are mainly taken from the reports of the judges in this department, J. R. Fotheringham, E. B. George and Walter Mott, with a few notes personally taken. The canna and gladiolus beds were especially resplendent in effect, four of the latter being over 200 feet long and 8 feet wide each.

C. N. Ruedlinger, Minneapolis, Minn.—A varied collection of hybrid perpetual, hybrid tea roses, etc.; also a good assortment of hardy shrubs and herbaceous plants.

R. & J. Farquhar & Co., Boston, Mass.—Very large display of gladioli, cannas, dahlias, Chrysanthemum Seven Oaks and Viola cornuta atrosonguinea. Lilium myriophyllum in this exhibit had passed out of flower. Gladiolus Comte de Sachs was particularly effective.

Henry A. Dreer, Inc., Philadelphia, Pa.—A most comprehensive collection of herbaceous plants; an excellent collection of aquatics; a brilliant display of the Cardinal Climber, a fine variety of Ipomea quamoclit; beds of cannas, especially one of the new pink Hungaria; and Pennisetum macrophyllum atrosanguineum.

W. A. Manda, Inc., South Orange, N. J.—An interesting planting, including evergreen shrubs, conifers, golden privet and Japanese maples.

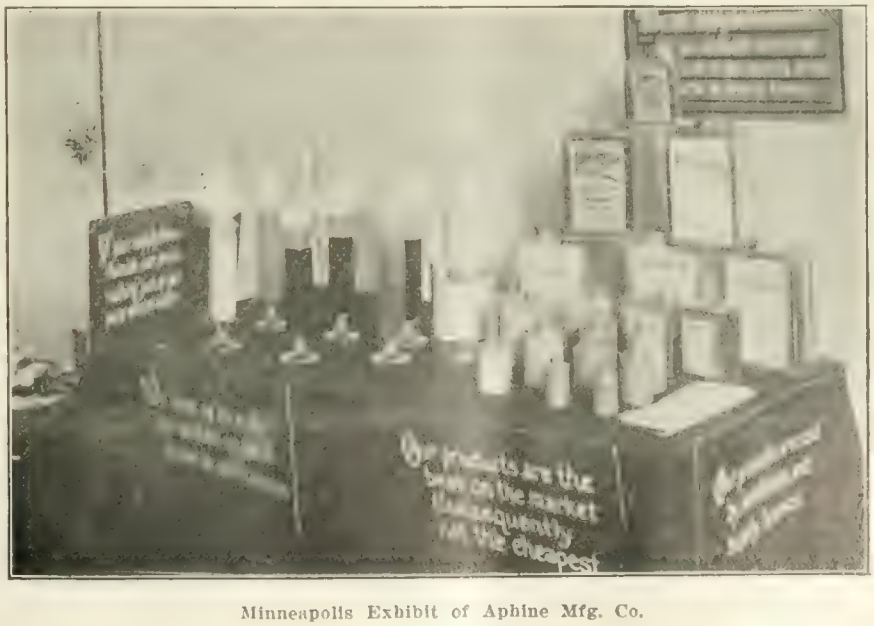
Holm & Olson, St. Paul, Minn.—An extensive collection of conifers, flowering shrubs, and artistically filled vases of foliage plants.

John Lewis Childs, Flowerfield, L. I.—A collection of his well-known gladioli, including Aline, Burnham, Dawn, Ray, Scribe, etc.

A. T. Boddington, New York.—Splendid beds of gladiolus America and canna King Humbert.

Arthur Cowee, Berlin, N. Y.—An exceptionally fine display of gladiolus Peace.

Vaughan's Seed Store, Chicago, Ill.—An



Minneapolis Exhibit of Aphine Mfg. Co.

EXTRA FINE FIELD GROWN
CARNATION PLANTS

1000 White Perfection, $7.00 per 100, $60.00 per 1000.
8000 Enchantress, $6.00 per 100, $50.00 per 1000.
3000 Windsor Lawson, $5.00 per 100, $40.00 per 1000.
900 T. W. Lawson, $5.00 per 100, $40.00 per 1000.
350 White Lawson, $5.00 per 100, $40.00 per 1000.

Cash with order or satisfactory reference from unknown correspondents.

LAKEVIEW ROSE GARDENS
JAMESTOWN, - N. Y.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED.
Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.
LAGER & HURRELL, Summit N. J.,

FOR SALE
COLLECTION OF STOVE PLANTS
Consisting of Large Specimen Plants Phyllotaenium Lindenii, Alpina Sanderae, Anthurium crystallinum, Marantas, Crotons, etc.
Address T. W., care Horticulture

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

Little Ads Bring Big Returns
Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.
Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.
Don't fail to read them each issue, for you will find one or more that will prove profitable to you.
They Cost Only One Cent a Word Undisplayed

MIGNONETTE
Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

ORCHIDS WELL GROWN PLANTS of all leading kinds including:
BRASSO-CATTLEYAS, LAELIO-CATTLEYAS, ODONTIODAS
that have now become so deservedly popular.
SEND FOR PARTICULARS of anything that interests you.
CYCLAMEN SEED of our celebrated strain now ready including, "MRS. BUCKSTON," the most popular novelty of recent years.
During September and early October, our Mr. H. A. Barnard will be in the United States, Address, Hotel Albert. University Place, New York City.
He would be glad to hear from anyone interested.
STUART LOW & CO., ROYAL NURSERIES, Bush Hill Park, **Enfield,** Middlesex, ENGLAND

CARNATIONS
F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,
CROMWELL CONN.
Bedding Plants and Roses

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N.J.

SPHAGNUM MOSS
We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent off Cash with order.
1 bale..... $4.50 5 bales.....$15.00
2 bales..... 8.50 10 bales..... 29.00
Car lots. Write for Prices.
INDUSTRIAL MOSS & PEAT CO., Waretown: N. J.
LOCK BOX 5

extensive display of cannas and gladioli in new and standard varieties.

Northrup, King & Co., Minneapolis, Minn.—A collection of gladioli embracing many of the newer sorts.

Conard & Jones Co., West Grove, Pa. Three big beds of cannas including Meteor, a startling red, in the opinion of the judges the best canna shown on the grounds. Also Panama, a giant salmon, Blanche Wintzer, pure white, Olympia, rosy cinnabuon, Beacon, flaming scarlet, these with many other sorts forming a splendid set of novelties.

H. F. Michell Co., Philadelphia, Pa.—An exhibit of canna King Humbert and their new scarlet geranium Helen Michell.

Wm. Tricker, Arlington, N. J.—A bed of Perry's lythrum, bordered with the new hardy golden vinca. This lythrum is an improvement over the old L. salicaria, being much more compact.

R. Vincent, Jr. & Sons Co., White Marsh, Md.—Geranium Scarlet Bedder, a variety well worthy of a place among the leading scarlets.

G. Malmquist, Minneapolis, Minn.—A planting of petunia Rosamond, quite similar to and possibly identical with the variety known as Bar Harbor Beauty.

F. H. DeWitt & Co., Wooster, O.—An exhibit of geranium Ruby and everblooming show pelargoniums Wurtembergia and Easter Greeting, planted June 13, and still in flower.

A. Henderson & Co., Chicago, Ill.—An exhibit of double petunias and geraniums.

C. A. Schaefer, La Crosse, Wis.—Geranium Scarlet Bedder and canna King Humbert.

Merriam Park Greenhouses, Minneapolis, Minn.—Geraniums Alphonse Ricard and Heinrich.

Nagel Greenhouses, Minneapolis, Minn.—Geranium Gloire de France, double pink.

L. S. Donaldson & Co., Minneapolis, Minn.—Two very artistic formal beds and standard vases.

H. B. Whitted, Minneapolis, Minn.—A formal bed, very artistically and attractively arranged; also vases well filled.

Will Bros., Minneapolis, Minn.—Speciosum lilies and verbenas, the latter forming an impressive ground cover.

W. F. Kasting Co., Buffalo, N. Y.—A bed of canna Mrs. W. F. Kasting, bordered with pennisetum.

Erie Floral Co.—Bed of canna Alphonse Bouvier.

E. F. Winterson Co., Chicago, Ill.—An exhibit of canna King Humbert.

L. L. May & Co., St. Paul.—An excellent collection of hardy evergreens, shrubs and trees.

Thos. Meehan & Sons, Dresha, Pa.—Collection of conifers.

Lakewood Cemetery Greenhouse, Minneapolis, Minn.—Four standard vases, well filled.

Minneapolis Floral Co., Minneapolis, Minn.—Pair of standard vases, well filled.

Board of Park Commissioners, Minneapolis, Minn.—A very extensive and attractive exhibit of conifers, geraniums, cannas, asters and hardy herbaceous material.

La Crosse Floral Co., La Crosse, Wis.—Fine beds of zonal geraniums and King Humbert cannas.

John Hawkins, Rose Hill Nurseries, Minneapolis, Minn.—Pretty little conifers and ornamental shrubbery.

The judges in their report gave great credit to Theodore Wirth, Supt. of Parks, Minneapolis, for the arduous task of getting the exhibits together, arranging same so artistically and effectively, and for the excellent care shown in the condition of all exhibits. This plan of out-door exhibits so satisfactorily carried out should, in the opinion of the judges, be made an annual feature of the conventions.

Cincinnati, Ohio—It is reported that Mr. Anderson, of Dayton, Ohio, is to open a flower store in the Emery Arcade in this city.

Joe Beran, of the J. M. McCullough Sons Co., has returned from his vacation, spent in fishing near Remington, Ohio.

Visitors: Mrs. Mulford, Lebanon, Ohio; and Fred Rupp, Lawrenceburg, Ind.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

FRAMINGHAM NURSERIES
SOUTH FRAMINGHAM, MASS.
U-GET-A DEAL
TRADE MARK

W. B. WHITTIER & CO.,
SOUTH FRAMINGHAM . . MASS.
GROWERS OF HIGH GRADE NURSERY STOCK
LARGE ASSORTMENT
WRITE FOR PRICES BEFORE ORDERING ELSEWHERE

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

STOCK for FALL DELIVERY

EXCELSA RAMBLERS.

The finest Crimson Rambler, good color, good foliage, good habit, field-grown plants, well branched, own roots. $4.00 per dozen.

ANEMONE JAPONICA.

Alba and Queen Charlotte. Strong field grown plants. $2.00 per doz. $15.00 per 100.

SHADE TREES.

American Elms,	5-6 ft.	$5.00	per 100
Ash-leaved Maples,	7-8 ft.	25.00	" "
White Ash,	5-6 ft.	30.00	" "
" "	6-7 ft.	35.00	" "
Green "	5-6 ft.	30.00	" "
" "	6-7 ft.	35.00	" "

Strong stock with splendid roots. All of the above our own growing. No charge for packing.

Ramblers and Perennials a specialty. Special prices to the trade.

EDWARD W. BREED
94 Prescott St., - Clinton, Mass.

POINSETTIAS,

TRUE TYPE.

Shipped in Paper Pots, June Delivery.

2½ INCH PLANTS, $6.00 PER 100

Write for Prices in Large Quantities

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. **Subscription price $1.00 per year. Foreign subscriptions $1.50 per year.** In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

CHRISTMAS PEPPERS

Celestial and all other Peppers. Strong plants with Fruit from 4½ in. pots, $10.00 per 100.

PRIMROSES—OBCONICA AND CHINESE

The very best strains. Strong plants from 2½-in. pots, $3.00 per 100; $25.00 per 1000.

Larger sizes and more at 1000 rates. Cash with order.

FRANK OECHSLIN
4911 Quincy St., Chicago, Ill.

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

When writing to advertisers kindly mention HORTICULTURE.

AMERICAN GLADIOLUS SOCIETY.

President Hendrickson's Address at Minneapolis.

Another year has again demonstrated the usefulness and increasing popularity of the Gladiolus, and also a need for a society such as ours, but as we look over the past year we do not feel satisfied with the work accomplished. While one of the main objects of the society is to create a demand and love for the gladiolus it has always seemed to me that another important work is the testing and proving out of the different varieties that are put on the market, but we feel that very little real good has been done along these lines, largely owing to the unwillingness of many growers to submit their supposedly new and valuable seedlings to the trial grounds before putting them on the market, and I am convinced more and more that something definite ought to be done along these lines, if our society is going to accomplish anything at all. It has been my privilege this year to observe many varieties in the trial grounds and the trials show that there is great anxiety on the part of many growers to put many varieties on the market regardless as to whether they contain merit or not, or whether better ones have been discarded years ago. I believe if we could induce every grower to register and submit for trial every new variety before putting it on the market, and get the opinion from the committee on nomenclature it would save a great deal of wasted time. It seems to me it is to our own interest to be careful along these lines as nothing hurts business as much as disappointment, and we cannot afford to disappoint a buyer especially if he is a florist who is depending upon an income from his crop, and each year is proving to the general florist that he must include gladioli if he would be up-to-date, and he is beginning to find out that they are a good income producer.

As far as I can ascertain the past year has been a good one for most American growers, but a new factor has arisen in the way of almost unfair competition with imported stock. I believe that we all agree that healthy competition is good for business, but it is needless for me to point out that it is impossible for the American grower to compete with labor conditions in other countries, and while I would not want to go on record as doing anything to restrict trade, I do think we would be justified in having a committee appointed to work for an increase of duty to protect our own interests.

Regarding the future of the society, we are having the same experience that all other similar societies have had, and that is, it is hard work to keep up membership. It is always easy to get members fast for a new society, but in two or three years it gets harder and harder, and I am of the opinion that the sooner some plan for affiliation with the S. A. F. can be worked out the better it will be for all concerned.

In closing I wish to thank my associates for the co-operation and response that they have always given me during my term of office.

Nomenclature Committee's Report.

Prof. Beal recommended that names presented for new varieties should be filed for further investigation before being registered. Prof. Beal said that it was impossible to determine the facts concerning many varieties under dispute because of the failure of certain growers to comply with the request of the committee to furnish bulbs for trial. It was voted that the society purchase such varieties, for the purpose of comparison and identification in the trial grounds at Ithaca.

Officers Elected.

President, Montague Chamberlain, Boston, Mass.; vice-president, Geo. Woodruff, Independence, Iowa; treasurer, Carl Cropp, Chicago, Ill.; secretary, L. Merton Gage, So. Natick, Mass.

Executive Committee: I. S. Hendrickson, Floral Park, N. Y.; Mrs. A. H. Austin, Wayland, Ohio; Alex. Henderson, Chicago.

Nomenclature Committee: Prof. A. C. Beal, Ithaca, N. Y.; I. S. Hendrickson, Floral Park, N. Y.; Leonard Joerg, Flowerfield, N. Y.

"MILLIONAIRE"
STRAWBERRY PLANTS
Growing Strawberries forty years. Have all varieties. Originated "Millionaire" largest perfect sweet Strawberry grown, tested in all soils ten years. Selling 30 cents a quart by crate. Twelve plants carefully packed prepaid by mail, one dollar cash with order. Orders promptly filled.
HENRY JEROLAMAN
HILTON, NEW JERSEY

STRAWBERRIES
POT-GROWN PLANTS
All the Leading Varieties
.... for ...
July and August Planting
BRECK-ROBINSON NURSERIES
LEXINGTON, MASS.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

Flowering, Decorative and Vegetable Plants
In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY



Mignonette
Boddington's Majesty
THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.
Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.
Arthur T. Boddington
SEEDSMAN
342 West 14th St., New York

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force. coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouilliere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

Obituary

Charles M. Hooker.

Charles M. Hooker, a well-known horticulturist of Rochester, N. Y., died August 18, aged 80 years. He leaves three sons and three daughters.

Charles Krombach.

Charles Krombach, for 30 years a florist at 25th street and 4th avenue, Brooklyn, N. Y., died at his home, August 18, aged 56 years. His wife, two daughters and one son survive him.

Charles Crawford.

Charles Crawford, a retail florist of Philadelphia, well-known to a former generation of the trade, died on the 24th inst., aged 70, at the home of a friend, Mr. McReynolds, on North Tenth street, and was buried at Mt. Moriah on the 27th. Mr. Crawford was not a member of the Florists' Club and was therefore known only to a few of the present day florists. He is said to have been instrumental in introducing the late W. K. Harris to the Harrisi lily, but so many conflicting stories have been told of that interesting event that there may not be much to this one.

STARTING VEGETABLES IN COLD FRAMES.

Horticulture Publishing Co.

One of your readers desires to know if their is much benefit to be derived from starting cucumbers, melons, beets and similar vegetables in cold frames under cloth, with a view of gaining six to eight weeks, as compared with planting seed out of doors.

It would be our opinion that the seeds of cucumbers, melons and such vegetables would make a gain by being sown under cloth in cold frames, but there would not be a gain of from six to eight weeks. The gain would not be over two. The method of growing cucumbers and melons especially in cold frames, and never taking the glass off, but raising the frames permanently after the weather begins to get very warm, has been practiced here.

HITTINGER FRUIT COMPANY.

Belmont, Mass.

GREENHOUSES BUILDING OR CONTEMPLATED.

Baltimore, Md.—Edward Van Reuth, Jr., one house.

Smith's Ferry, Mass.—Gallivan Bros., house 28 x 150.

Lebanon, Pa.—Joseph F. Vavrous, addition 16 x 30.

Wheeling, W. Va.—Cameron Greenhouse Co., three houses.

Natchez, Miss.—Chris. Maier & Bro., two houses, each 20 x 50.

Northampton, Mass.—Alexander Parks, Jewett street, addition 25 x 45.

Logansport, Ind.—J. A. Newby, Moninger house 27 x 200; Northern Indiana Hospital for the Insane, house 20 x 100.

Lansing, Mich.—Gurdon B. Smith, six houses, each 30 x 165, Moninger construction; J. A. Bissenger, rebuilding, Moninger material.

Stoneham, Mass.—Fire in the boiler room of A. Christenson's greenhouse caused a damage of about $1,000 on the evening of August 27th.

MICHELL'S GIANT PANSY SEED

New Crop. Distinctive Quality

MICHELL'S GIANT EXHIBITION MIXED

A truly Giant Strain which we have secured from the leading Pansy Specialists in Germany, England and France. Plants are of strong, sturdy habit; flowers of immense size, heavy texture and of vivid colors and shades. Trade pkt., 50c.; 75c. per ⅛ oz.; per oz., $5.00.

GIANT CYCLAMEN SEED

ENGLISH GROWN SEED

Pure White, Soft Pink, White with Red Base, Brilliant Crimson, Salmon Pink, per 100 seeds, $1.00; $8.50 per 1000 seeds. Mixed colors, per 100 seeds, 90c.; $8.00 per 1000 seeds.

GERMAN GROWN SEED

White, Pink, Red, White with Red Base, per 100 seeds, 75c.; $6.00 per 1000 seeds. Mixed colors, per 100 seeds, 60c.; $5.00 per 1000 seeds.

GIANT PRIZE PANSIES

IN SEPARATE COLORS

	Tr. pkt.	Oz.
Azure Blue	$0.40	$1.75
Black Blue	.40	1.75
Emperor William	.40	1.75
Hortensia Red	.40	2.50
King of Blacks	.40	1.75
Lord Beaconsfield	.40	1.75
Peacock	.40	2.50
Snow Queen	.40	1.75
Striped	.40	1.75
White, with Eye	.40	1.75
Pure Yellow	.40	1.75
Yellow, with Eye	.40	1.75

MYOSOTIS

Alpestris Victoria	$0.25	$1.00
Eliza Fanrobert	.15	.50
Palustris	.30	1.75
Palustris Semperflorens	.25	1.25

Also all other Seasonable Seeds and Supplies for the Florists. Our New Wholesale Catalogue just out. Send for one if you haven't a copy

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

DURING RECESS.

The fall outing of the New York and New Jersey Association of Plant Growers will take place on Thursday, September 4, 1913. The party will board the specially chartered steamer, "Commander," at Battery Landing, N. Y., at 10 A. M., and sail up the historic Hudson. Luncheon and dinner will be served on board and a band will furnish music for dancing, etc. A landing will be made at Bear Mountain to afford an opportunity to visit the new Harriman Inter-State Park. A. L. Miller, Gerard Dreyer and Wm. H. Siebrecht, Jr., are the committee in charge.

PANSY SEED

Specially Blended for Florists Use.

TRADE PKTS. $1.00.

Wm. Elliott & Sons

42 Vesey St., New York

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice

On and after September 1, 1913 our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

72 CORTLANDT ST., N. Y.

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

BULBS and HARDY PLANTS

Contracts made for Seed Growing

Send for price list

E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

EARLY FALL BULBS

READY NOW

Roman Hyacinths, white, per doz. 50c.; per 100, $3.00.
Candidum Lilies, per doz. 60c.; per 100, $4.50.
Harrisii Lilies, 9-11, per doz. $3.75; per 100, $23.00.
Harrisii Lilies, 7-9, per doz. $1.35; per 100, $8.75.
Chinese Sacred Lilies, per doz. 60c.; per basket, $1.25.
Freesias, extra large, per doz. 25c.; per 100, $1.25.
Paper White Narcissi, per 100, $1.10; per 1000, $8.75.
Ornithogalum, per 100, $1.50; per 1000, $12.00.
Oxalis, Bermuda Buttercup, per 100, $1.00; per 1000, $8.50.

EXTRA FINE STOCK. LET US HAVE YOUR ORDER TODAY

WRITE FOR FALL CATALOG.

James Vick's Sons

ROCHESTER, N. Y.

FOTTLER-FISKE-RAWSON CO. FANEUIL HALL SQUARE

WIZARD BRAND

SHEEP MANURE

PULVERIZED

Cattle Manure

Shredded or Pulverized

See Our Trade List.

BOSTON

GIANT PANSIES - Sow Now!

	Per oz.	Per Tr. Pkt.
Special Cemetery Mixture.	$3.00	$0.40
Special Florists' Mixture.	4.00	.50
Trimardeau Selections, mixed	4.00	.50
Trimardeau, fine mixed varieties	1.50	.25
Cassier's Giants Improved, splendid mixture	5.00	.50
Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate	2.00	.30
Zangen's Exhibition Mixture, best creations	8.00	1.00

My catalogue has also other varieties.

O. V. Zangen, Seedsman, Hoboken, N. J.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS

W. & D.'s AMERICAN SHOW

PANSIES

With Great Diversity of Color. ¼ ounce $1.50

WEEBER & DON, Seed Merchants

114 Chambers St., New York

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00

We have also extra fine strains of Masterpiece, Madam Perret and all the leading varieties of Giant Trimardeau.

Write for Prices.

FREESIA

REFRACTA ALBA:	100	1000
⅜ to ½ in. diameter	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
Mammoth Bulbs	2.00	12.00
PURITY, first size	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
9 to 11 in. "	20.00	

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co.

"THE MOST RELIABLE SEEDS"

53 Barclay St., NEW YORK

T 14

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany) Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany) Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany) High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

MINNEAPOLIS CO





The photograph from which this picture is reproduced is a splendid example of panoramic work, but, unfortunately, a five-foo
the photograph in two and if our readers will mentally connect the right-hand end of the top il
Armory where the Convention was held and some of the elabor

VENTION GROUP.





stration cannot be reduced to the width of two pages of HORTICULTURE and still have the features distinguishable, so we cut
tion with the left-hand end of the lower one they will get a fair idea of the scene in front of the
ormal bedding which formed so effective a setting for the whole.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Minneapolis, Minn.—W. F. Holmes, 910 Nicolet avenue, will move to a new and spacious store on Seventh street, near Henepin avenue, on September 1.

John Breitmeyer's Sons of Detroit are erecting a new building three stories high on Randolph street near their present location to which they will move their business as soon as the building is ready, probably about January 1, 1914. It will be one of the finest flower stores in the country.

STEAMER DEPARTURES

Allan.

Scotian, Montreal-London.....Aug 30
Corsican, Montreal Lv'pool..Sept. 2
Numidian, Boston-Glasgow..Sept 5

American.

Philadelphia, N.Y.-S'h'pton..Sept. 5
New York, N.Y.-S'hampton..Sept. 12

Atlantic Transport.

Minneapolis, N.Y.-London....Sept. 6
Minnehaha, N.Y.-London....Sept. 13

Cunard.

Franconia, Boston Liverpool..Sept. 2
Lusitania, N.Y.-Liverpool.....Sept. 3
Andania, Montreal-S'h'pton..Sept. 6

French Line.

La Provence, N.Y.-Havre.....Sept. 3
La Touraine, N.Y.-Havre.....Sept. 6
France, N.Y.-Havre.....Sept. 10

Hamburg-American.

K. Aug. Vic., N.Y.-Hamburg.Sept. 3
Pres. Lincoln, N.Y. H'burg..Sept 4
Pennsylvania, N.Y.-H'burg..Sept. 11
Victoria Luise, N.Y.-H'burg..Sept. 12
Cleveland, Boston-Hamburg..Sept. 12

Holland-America.

Noordam, N.Y.-Rotterdam...Sept 2
Ryndam, N.Y.-Rotterdam...Sept 9

Leyland.

Canadian, Boston-Liverpool..Sept. 13

North German Lloyd.

Kr'n'p Wilhelm, N.Y.-B'men.Sept. 2
G. Washington, N.Y.-B'men. Sept. 6
Barbarossa, N.Y.-Mediter'n..Sept 6
Kron. Cecilie, N.Y.-Bremen..Sept. 9

Red Star.

Zeeland, N.Y.-Antwerp.....Sept 6
Finland, N.Y.-Antwerp.....Sept 13

White Star.

Baltic, N.Y.-Liverpool.....Sept. 4
Oceanic, N.Y.-Southampton. Sept 6
Cretic, Boston-Mediterranean.Sept. 6
Canada, Montreal-Liverpool. Sept 6
Cymric, Boston-Liverpool....Sept 9
Adriatic, N.Y.-Liverpool.....Sept. 11

NEW FLOWER STORES.

Chicago, Ill.—Mrs. Sarah Lindon, 108 E. 51st street.

St. Louis, Mo.—Fred Anthon, 5646 Delmar Boulevard.

Jamaica Plain, Mass.—Maurice Rosen, 707 Center street.

Aurora, Ill.—Aurora Greenhouse Co., Frazier Block, Downer place.

Baltimore, Md.—Forthuber Bros., Greenmount and North avenues.

Sacramento, Cal.—Dr. A. J. Cook, state horticultural commissioner, against whom charges of incompetence were brought, was exonerated by Governor Johnson last week after a six-hour hearing, without the defence having submitted all its evidence.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F St., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany. N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

ST. LOUIS NOTES.

Adam Zender of Chicago spent the past week here visiting his daughter, Mrs. R. J. Windler.

J. E. H. Morichard, of the S. S. Pennock - Meehan Co., Philadelphia, called on the trade here last week.

G. S. Johnson, head of the Johnson Tinfoil Co., died the past week. Mr. Johnson was well known to the local trade in selling them tinfoil.

Fred W. Hummert, father of August Hummert, vice-president of the St. Louis Seed Co., died last week and the trade extended their sympathy.

INCORPORATED.

San Francisco, Cal.—Kimura Nursery Company, capital stock, $25,000. Incorporators, K. Kimura, K. Nishiyama, Y. Sakada.

Louisville, Ky.—E. G. Reimers & Son Co., florists and nurserymen, capital stock, $5,000. Incorporators, Ida J. Reimers, Milton Reimers and George Stark.

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

WE ARE PROUD OF OUR RECORD!
FIRST HONORS AT THE S. A. F.
AGAIN AWARDED TO THE
HOUSE OF RICE
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila., Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Clubs and Societies

AMERICAN CARNATION SOCIETY.

At the mid-summer meeting of the American Carnation Society at Minneapolis, on August 21st, Cleveland, Ohio, was selected as the next meeting place, the convention to be held January 28-29, 1914. Adam Graham was selected as chairman of the committee on local arrangements, with power to add members.

An invitation from the New York Flower Show committee to participate in the spring show, to be held March 21-28, 1914, was accepted on condition that all classes, except those set aside for private gardeners, shall be open to the members of the American Carnation Society only.

Secretary Baur was selected to represent the A. C. S. on the advisory committee of the Department of Horticulture of the Panama-Pacific Exposition. Secretary Baur also submitted a draft of a premium list for the exhibition in January. After striking out the class covering the "mottled or overlaid" varieties, the list was approved. The Medal of Merit was awarded to Peter Fisher for originating the variety "Beacon."

A. F. J. Baur, Secretary.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The American Association of Park Superintendents opened their annual convention at Denver, Colo., on Monday, August 25. President James B. Shea, deputy commissioner of Boston Park Department, responded eloquently to the cordial address of welcome by Mayor Perkins. Papers were read by Edward DeGroot, general secretary of the Playground Association of Chicago, on "Playground and Recreation Facilities and Their Management"; by Herman W. Merkel on the "New York Idea of a Zoological Park," and by J. J. Levison on the "Care and Planting of Ornamental Shade Trees.

Officers for the ensuing year were elected, as follows: President, Harry S. Richards, Chicago; vice-presidents, G. W. Burke, Pittsburgh, Pa.; Frank Brubeck, Terre Haute, Ind.; F. C. Green, Providence, R. I.; W. S. Manning, Baltimore, Md.; G. Hennenkoffer, Pueblo, Colo.; G. Champion, Winnipeg, Can.; secretary and treasurer, J. J. Levison, Brooklyn, N. Y.

Newburgh, N. Y., was selected as the meeting place for next year.

MASSACHUSETTS AGRICULTURAL COLLEGE.

As yet no permanent arrangements have been made for Prof. White's successor, but E. J. Canning, who has been curator of the Botanic Gardens at Smith College for many years, will probably assume the instructional work in the fall or until a new man is appointed. Clark L. Thayer, a graduate of M. A. C. in 1913, will assist in the work of the department.

NORTH SHORE HORTICULTURAL SOCIETY.

The annual summer show of the above society was held on the grounds of the R. C. Winthrop estate at West Manchester, Mass., August 20 and 21. While the show as a whole was not quite as large as previous years, the quality was up to the usual high standard. Groups of foliage and flowering plants were shown by Mrs. Lester Leland, gard. E. H. Wetterlow, and Mrs. E. S. Grew, gard. A. E. Parsons. Large collections of vegetables were displayed by A. W. Preston of Swampscott, gard. J. C. Smith, Mrs. Geo. Wigglesworth, gard. W. Craig, and Mrs. Lester Leland. The various classes were pretty well filled. James McGregor, Dublin, N. H., Geo. Stewart, Medford, Mass., and Wm. Swan, No. Easton, Mass., officiated as judges, and their awards gave general satisfaction.

James Salter, Sec'y.





The above advt. is one of a series of paid advts. that Penn the Florist, of Boston, is publishing weekly, (for nearly a year) in the local florists' papers, to become better acquainted with the florists of the country. These advts. have been published daily in the different Boston papers. Any florist desiring to use same in his home town, may do so without further consent. These advts. have been the means of establishing our present great volume of business.

MERIT RECOGNIZED

A First-Class Certificate of Merit and a Highly Commended Award

Were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class.

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



SUCCESSFUL FLORISTS

all over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73 which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave. **553 Lake St., Kendallville, Ind.** New York Office, 231 West 42nd St.

LENOX HORTICULTURAL SOCIETY.

The annual summer show in connection with the above society was held in the Town Hall, Lenox, Wednesday and Thursday, Aug. 20th and 21st. There was a good display in all the various classes. The following is the prize list.

Flower Prizes.

Collection of Perennials: 1st, Fred Heeremans; 2nd, J. W. Pybus.

12 Annuals: 1st, Walter Jack; 2nd, A. H. Wingett; 3rd, Fred Heeremans. 6 do., 1st, J. J. Donohoe; 2nd, Alex McConnachie; 3rd, S. W. Carlquist.

12 Phlox decussata: 1st, J. W Pybus; 2nd, E. J. Norman. 6 do., Gordon McMillan.

Gladioli: 1st, J. J. Donohoe; 2nd, Fred Heeremans; 3rd, S. W. Carlquist.

Asters: 1st, J. W. Pybus; 2nd, E. J. Norman; 3rd, S. W Carlquist.

Sweet Peas: 1st, George Foulsham; 2nd, S. W Carlquist; 3rd, J. Donohoe. Vase of Sweet Peas with own foliage: 1st, Geo. Foulsham; 2nd, S. W. Carlquist; 3rd, J. Donohoe.

Stocks: 1st, George Thompson; 2nd, S. W. Carlquist.

Salpiglossis: 1st, J. W. Pybus; 2nd. J. J. Donohoe; 3rd, A. H. Wingett.

Scabiosa: 1st, Walter Jack; 2nd, Geo. Wingett; 3rd, Fred Heeremans.

Delphinium: 1st, Walter Jack; 2nd, Geo. Thompson; 3rd, J. W. Pybus.

Penistemon: 1st, S. W. Carlquist; 2nd, A. H. Wingett; 3rd, J. W. Pybus.

Antirrhinum: 1st, Walter J[illegible]. 2nd, J. J. Donohoe; 3rd, A. H. Wingett.

Vase of asters: 1st, Joe Pybus; 2nd, A. H. Wingett; 3rd, J. J. Donohoe.

Center piece for table: 1st, Miss A. Alexandre.

12 Tuberous rooted Begonias: 1st, A. H. Wingett. 6 do.: 1st, J. J. Donohoe; 2nd, S. W. Carlquist.

Fruit Prizes.

White Grapes: 1st, Gordon McMillan; 2nd, Geo. Thompson; 3rd, S. W. Carlquist. Black do.: 1st, G. McMillan; 2nd, S. W. Carlquist; 3rd, George Thompson.

Peaches: 1st, J. J. Donohoe; 2nd, Gordon McMillan; 3rd, A. H. Wingett.

Nectarines: 1st, J. J. Donohoe; 2nd, S. W. Carlquist; 3rd, Geo. Thompson.

Figs: 1st, A. H. Wingett; 2nd, Fred Heeremans; 3rd, S. W. Carlquist.

Melons, indoor: 1st S. W. Carlquist; 2nd, Geo. Thompson; 3rd, Fred Heeremans. Melons, outdoor: 1st, S. W. Carlquist; 2nd, Gordon McMillan; 3rd Walter Jack.

Collection of Fruit: S. W. Carlquist.

Outdoor Fruit: Walter Jack.

Vegetable Prizes.

24 Kinds: 1st, Geo. Thompson; 2nd, S. W. Carlquist. 12 kinds: 1st, Walter Jack; 2nd, A. Etherington. 6 kinds: George Breed.

Globe Artichokes: 1st, Geo. Thompson; 2nd, S. W. Carlquist.

String Beans, green: 1st, Geo. Foulsham; 2nd, Gordon McMillan; 3rd, E. J. Norman.

String Beans, yellow: 1st, S. W. Carlquist; 2nd, E. J. Norman; 3rd, A. Etherington.

Beans, Lima: 1st, Fred Heeremans; 2nd, J. J. Donohoe; 3rd, S. W. Carlquist.

Long Beets: 1st, Geo. Thompson; 2nd, S. W. Carlquist; 3rd, A. H. Wingett.

Round Beets: 1st, Geo. Foulsham; 2nd, Geo. Thompson; 3rd, E. J. Norman.

Cauliflower: 1st, S. W. Carlquist; 2nd, A. H. Wingett; 3rd, Walter Jack.

Cabbage: 1st, J. J. Donohoe; 2nd, Geo. Thompson; 3rd, A. H. Wingett.

Long Carrots: 1st, Geo. Thompson; 2nd, S. W. Carlquist; 3rd, A. Etherington.

Short Carrots: 1st, Geo. Thompson; 2nd, A. McConnachie; 3rd, Fred Heeremans.

Celery: 1st, S. W. Carlquist; 2nd, Geo. Thompson; 3rd, A. H. Wingett.

Celeriac: 1st, Geo. Thompson; 2nd, E. J. Norman; 3rd, S. W. Carlquist.

Cucumbers, indoor: 1st, A. Etherington; 2nd, Geo. Thompson; 3rd, A. H. Wingett.

Cucumbers, White Spine: 1st, J. J. Donohoe; 2nd, Walter Jack; 3rd, A. H. Wingett.

Sweet Corn: 1st, Geo. Thompson; 2nd, Fred Heeremans; 3rd, A. H. Wingett.

Egg Plant: 1st, A. H. Wingett; 2nd, Fred Heeremans; 3rd, Walter Jack.

Kohlrabi: 1st, A. H. Wingett; 2nd, S. W. Carlquist; 3rd, Walter Jack.

Leeks: 1st, J. J. Donohoe; 2nd, Walter Jack; 3rd, S. W. Carlquist.

Lettuce: 1st, Geo. Thompson; 2nd, A. H. Wingett; 3rd, A. Etherington.

Mushrooms: 1st, A. H. Wingett; 2nd, Fred Heeremans; 3rd, S. W. Carlquist.

Onions, Ailsa Craig: 1st, S. W. Carlquist; 2nd, Geo. Thompson; 3rd, A. H. Wingett.

Onions, yellow: 1st, A. H. Wingett; 2nd, Walter Jack; 3rd, S. W. Carlquist.

Onions, red: 1st, Walter Jack; 2nd, A. H. Wingett; 3rd, Geo. Thompson.

Onions, white: 1st, Fred Heeremans; 2nd, A. H. Wingett; 3rd, Geo. Thompson.

Okra: 1st, Walter Jack; 2nd, A. H. Wingett; 3rd, Geo. Thompson.

Parsnips: 1st, A. Etherington; 2nd, S. W. Carlquist.

Peas: S. W. Carlquist.

Peppers: 1st, J. J. Donohoe; 2nd, A. McConnachie; 3rd, A. Etherington.

Pumpkins: 1st, A. Etherington; 2nd, S. W. Carlquist; 3rd, A. H. Wingett.

Radish: 1st, E. J. Norman; 2nd, A. Etherington; 3rd, Geo. Thompson.

Tomatoes: 1st, Fred Heeremans; 2nd, Walter Jack; 3rd, A. H. Wingett.

Turnips: 1st, S. W. Carlquist; 2nd, A. H. Wingett; 3rd, Geo. Thompson.

Vegetable Marrow: 1st, G. Foulsham; 2nd, E. J. Norman; 3rd, A. Etherington.

Brussell Sprouts: 1st, G. Thompson; 2nd, A. Etherington.

JOHN MAIR, Asst. Sec.

The Huntington (N. Y.) Horticultural and Agricultural Society will hold its eleventh annual exhibition on September 18 and 19. There are 141 classes in the schedule.

ROSES

MARYLAND, PINK KILLARNEY, KAISERINE, BULGARIA, HILLINGDON, SUNBURST.

In quantity—all sizes—$3.00—$8.00 per 100.

BEAUTIES

Good Flowers, $1.00—$3.00 per dozen.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE R THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI July 28			CHICAGO August 25			BUFFALO August 18			PITTSBURG July 28		
Am. Beauty, Fancy and Special	20.00	to	18.00	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	8.00	to	12.00	12.00	to	15.00	10.00	to	12.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	5.00	to	8.00	6.00	to	10.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	2.00	to	3.00	2.00	to	4.00
Killarney, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" Ordinary	1.00	to	3.00	4.00	to	4.00	2.00	to	4.00	3.00	to	4.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	4.00	3.00	to	4.00
Maryland, Ward, Taft, Perle, Extra	3.00	to	5.00	8.00	to	10.00	5.00	to	6.00	6.00	to	8.00
" " " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	4.00	3.00	to	4.00
Carnations, Fancy Grade		to		1.00	to	2.00	1.00	to	1.50	1.50	to	2.00
" Ordinary		to	1.00		to	1.00	.50	to	1.00		to	1.00
Cattleyas		to			to	50.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00		to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	6.00
Asters		to		1.00	to	4.00		to	2.00	.75	to	3.00
Daisies		to		.15	to	.25		to			to	
Sweet Peas		to		.25	to	.75		to			to	
Gardenias		to			to			to			to	
Adiantum		to		.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax		to			to	12.00		to	15.00		to	15.00
Asparagus Plumosus, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Sprengeri (100 bchs.)	15.00	to	25.00	25.00	to	50.00	25.00	to	35.00	40.00	to	50.00

BUY BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA
COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



GALVANIZED BUCKETS

FOR GROWERS AND RETAILERS
In any size to suit your requirements

These buckets are the most economical you can buy. They will outlast any other receptacles made. Do not rot—do not crack—can be easily washed out—with or without handles.

No	Width	Depth	Doz.	100
0	6 in.	5½ in.	$3.00	$20.00
1	7 in.	6½ in.	3.50	25.00
2	8 in.	7½ in.	4.00	30.00
3	10 in.	9½ in.	4.50	35.00
4	6 in.	10 in.	4.00	30.00

No.	Width	Depth	Doz.	100
5	7 in.	12 in.	$6.00	$40.00
6	9 in.	14 in.	10.00	65.00
7	10 in.	18 in.	15.00	105.00
8	11 in.	21½ in.	18.00	130.00

HEADQUARTERS FOR GREENS

Bronze Galax $2.00 per 1000.
Green Galax $1.00 per 1000; $7.50 per 10,000.
Green Leucothoe—New Crop—$1.00 per 100; $7.50 per 1000. **Green Sheet Moss**—$3.50 bag.

SPHAGNUM MOSS—Ten bbl. bales, burlapped, each $3.50; 5 bale lots at $16.00; 10 bale lots at $20.00; 25 bale lots at $68.75. This offer good until September 15th, only.

Asparagus Strings 50c. each.
Asparagus and Sprengeri Bunches 50c. each
Adiantum—$1.00 per 100.
Smilax—20c. per string. **Cut Hemlock** $2.50 bundle. **Hardy Dagger Ferns**—Best quality, large fronds, $1.50 per 1000.

RIBBONS AND SUPPLIES Many new patterns in exclusive Ribbons. Our new illustrated Catalogue of Ribbons and Supplies will be ready in September. Let us have your name now so we can mail you a copy.

During August we close at 5 P. M. We will close at noon, Monday, September 1 (Labor Day).

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

P M QUALITY

Flower Market Reports

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON August 28			ST. LOUIS August 25			PHILA. August 25		
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Richmond, Hillington, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" " " Ordinary	.50	to	2.00	2.00	to	3.00	.50	to	3.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00
" " " Ordinary	.50	to	2.00	3.00	to	4.00	.50	to	2.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
" Ordinary	.25	to	.50	1.00	to	1.50	.50	to	1.00
Cattleyas	60.00	to	75.00	40.00	to	50.00	50.00	to	60.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	4.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	4.00	.50	to	4.00
Asters	.35	to	2.00	1.00	to	2.00	.25	to	3.00
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.25	to	.50
Gardenias	8.00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

BOSTON

Business is abnormally quiet for August in Boston. It has been so all summer and has at no period had the ring to it that it had last summer. The flower-buying people are either away or are otherwise occupied. The suburban as well as the city trade are at a standstill and sales are made to them by the wholesale dealers under extreme suasion or at unmentionable prices. Gladioli as coming in now are the finest ever seen here, but, somehow, values have been hammered down, a condition to which large bulb growers have contributed by marketing their flowers as a bi-product. Lily of the valley, which had been running shy on quantity and quality is now back to normal status. Roses are plentiful and of varying quality. The new Montgomery rose, Hadley, a beautiful crimson, is in the limelight now and is bound to attract attention wherever seen. Asters are not so overplentiful; quality good, but the recent heavy rains have battered and spattered them and they show the wear and tear for the time being.

BUFFALO

Very little change is apparent in the flower market. The receipts of gladioli continue heavy and some exceptional fine varieties are seen. America, Panama and Augusta are taking well, and there are some fine Canary and Mrs. King. Some indoor asters are had, also only a few outdoor branching, though with very short stems. A heavy supply of Beauties are in and the demand has been fairly good. There have been too many lilies and at this time the supply has shortened up. Roses continue in fair supply, though at times White Killarney and Kaiserin are on the short side.

CHICAGO

There are welcome indications that fall, with its usual business awakening is at hand. In fact, the entire summer showed less of the total depression of business than in former years, and something else than the quality of stock must be the cause, for the early summer heat injured both the roses and carnations. In regular stock, Beauties lead in quality and there are plenty of them without being an overstock. Young stock is now coming in regularly and the quality is constantly improving. In novelties, Milady and Sunburst are the summer leaders and some extra fancy stock brings as high as 15c. Asters have passed from the early to the late varieties and on the sales of this flower reports vary. Gladioli are not selling well and outside of the three leaders, America, Mrs. King and Augusta, and Peace, sales are small. A few Golden Glow chrysanthemums are in, but do not meet much demand. A few carnations from young plants are being cut and some are of very fair size for August.

CINCINNATI

Last week, the demand was very indifferent. The wholesalers' effort to move the large supply was, naturally, very futile. The call from out-of-town is relatively better than the local demand. Roses are very plentiful. Asters are shipped into the market in larger quantities than before. Choice blooms have been moving readily, while the poorer ones find a very slow market. Gladioli are following closely the same form in the market that the asters show. Only the best sell well and yield a fair return. Lilies are in a fair supply and sell up fairly well. Hardy hydrangea, pond lilies and lily of the valley are among the offerings.

NEW YORK

Very little is being done yet in the wholesale markets, where the aspect has not materially changed for weeks, and there are no signs to indicate any immediate activity. In the retail stores a little bustle is noticed, however, and this is a hopeful indication. Quality has improved on

(Continued on page 319)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 / 609 MADISON SQ., NEW YORK

THE KERVAN COMPANY
Fresh Cut Evergreens, Mosses, Southern Smilax, Galax and Leucothoe, Preserved and Fresh Cut Cycas and Palmetto.
Tel 1519 / 5893 Mad. Sq. 113 W. 28 St., New York.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 56

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 23 1913	First Half of Week beginning Aug. 25 1913
Cattleyas	60.00 to 75.00	60.00 to 75.00
Lilies, Longiflorum	3.00 to 5.00	3.00 to 5.00
Lily of the Valley	1.00 to 3.00	1.00 to 2.50
Gladioli	.50 to 1.50	.50 to 1.50
Asters	.50 to 1.50	.50 to 1.50
Daisies	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	5.00 to 8.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 708 and 709 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

ANNUAL
AUCTION SALE OF STALLS
On Saturday, Sept. 6, at 9 A. M.
AT THE
BOSTON FLOWER EXCHANGE, Inc.
32 Otis St., 1 Winthrop Sq., Boston

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 317)

PHILADELPHIA

some of the standard things, such as asters and roses and there is no fault to find with the lilies, lily of the valley and other staples coming in. All that is lacking is the demand, and weather conditions will have much to do with this for some time to come.

Convention week usually marks low water in the cut flower year. From that on the tide begins to turn. If you ask a wholesaler he will tell you that last week was fair considering the season, and that about sums up the situation. The cool nights of late have improved the roses and there is now some very creditable stock arriving. The improvement is especially noticeable in local Beauties, of which we are now getting the first cuts of the new crop. The dahlia season has opened, and good flowers of the early varieties are a feature of the market. The gladiolus situation is about the same as last reported, only more so. Some good stock is to be had, but the volume is getting gradually smaller. Asters are very fine and moving nicely. Of course, there is some poor stock around, but such might as well stay at home and save freight. The tritoma begins to loom up, but we can hardly expect much sale for such subjects so early. New crop green leucothoe has arrived and this elegant decorative material adds a welcome item to the list of foliage greens.

ST. LOUIS

The market was at a low ebb last week. While there was plenty of stock the great bulk of it was of poor quality and prices were in keeping. Roses and carnations are very short stemmed, but with good flowers. Gladioli and tuberoses are so abundant that the market has been glutted all week. Lilies sell well at all times, also lily of the valley.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Aug. 23 1913	First Half of Week beginning Aug. 25 1913
American Beauty, Fancy and Special	10.00 to 15.00	10.00 to 12.00
" " Extra	6.00 to 8.00	5.00 to 8.00
" " No. 1	4.00 to 5.00	3.00 to 5.00
" " Lower Grades	.50 to 2.00	.50 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 3.00
" Ordinary	.25 to 1.00	.25 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 3.00
" " Ordinary	.25 to 1.00	.25 to 1.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

THE VISIT TO MICHELL'S.

When Harry Michell invited a few of his friends up to his trial grounds and gardens at Andalusia he did not realize how popular he was. Instead of the 200 he figured on, it turned out a case of 820! So there had to be some hustling at the last minute. But Harry has some good lieutenants and another special train and things were forthcoming. Paul Richter and the rest of them could not be balked by a little thing like a special train or two. Lunch was served on the lawn, after which the inspection of the grounds took place. There was something on every hand to interest the visitors; blazes of color in scarlet sage and cannas and phlox. The gardeners had their note books out. Splendid education for many of them. Paul Huebner said the three most remarkable things were Canna Pink Beauty of Hungaria, Artemesia lactiflora and Buddleia variabilis magnifica. The new geranium Helen Michell came in for a large share of praise. Maurice Fuld took good care of the reporters (excepting the writer, who didn't count). Philip Freud was everywhere with cigars and congeniality. Altogether, it was one grand picnic for the 820 and reflects great credit on Harry Michell, who was there in person and greeted everybody with the perfection of good humor and geniality. We wish him well and congratulate him on the big success of his first inspection tour. Burpee and Dreer will have to look to their laurels. Both would be the first to acknowledge that, and it is a pleasant thought to be able to record that rival houses in the same field as Michell were well represented. Even the seed trade of Baltimore was represented. Mr. Hisser, of Meyer-Hisser & Co., was on hand with some of his friends.

The St. Louis County Florists' Club will hold its regular monthly meeting on Wednesday, September 3.

Prepared MAGNOLIA Leaves
Red, Bronze and Green, Finest in the Country
Try a Sample Order and be Convinced
$1.25 PER CARTON
N. F. McCARTHY & CO., 112 Arch Street and 31 Otis Street, BOSTON, MASS.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus plumosus seedlings, $1.00 per 100; $6.00 per 1000; $50.00 per 10,000. COLLINGDALE GREENHOUSES, Collingdale, Pa.

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
White and Yellow Snapdragons, 2½-in., topped two and three times, $3.00 per 100.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCTION SALES OF STALLS

Boston Co-operative Flower Market,
2 Park St., Boston, Mass.

Boston Flower Exchange, Inc.,
32 Otis St. and 1 Winthrop Sq., Boston.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

BOILERS—Continued

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Seasonable Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Lilium Harrisii and Amaryllis Bulbs.
For page see List of Advertisers.

Yokohama Nursery Co., New York, N. Y.
Cold Storage Giganteums.

Peter Henderson & Co., 35 and 37 Cortlandt St., New York.
Henderson's Superior Bulbs for Autumn Planting.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
New Carnation The Herald.
For page see List of Advertisers.

Reynolds & Mackay, Burnswick Road, Troy, N. Y.
Field Grown Carnation Plants.

CARNATIONS—Continued

Carnation plants from field, $50.00 per 1000; $6.00 per 100. Cash. Mrs. Ward, Dorothy Gordon, Sangamo, Enchantress, Winsor and White Enchantress. JOY FLORAL CO., Nashville, Tenn.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Chrysanthemums, 2½ in., 500 Gloria, fine early pink; its mate, 200 Oct. Frost, early white, $2.50 per 100; the lot, $14.00. Cash. Ready now. M. B. RHULAND, Winchendon, Mass.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

For List of Advertisers See Page 295

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y. Ferns in Flats.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich. Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill. Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J. Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. J.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

GERANIUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

Michell's Seed House, 518 Market St., Philadelphia, Pa.
New Bedding Geranium "Helen Michell."

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

William H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York. Designer and Builder.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y. King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y. Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Hydrangea Otaksa.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J. Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
Kil-Worm and Kil-Weed.
For page see List of Advertisers.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.
Slug Shot
For page see List of Advertisers.

IRIS! IRIS!

One of the finest collections in America—180 kinds.
BLACK PRINCE, FLORENTINA ALBA, MADAM CHEREAU, SAN SOUCI and SIBERIAN BLUE, $2 per 100. MONSIGNOR, the finest of all, $1 each. Send 25c. in stamps for Iris Manual.
C. S. HARRISON'S SELECT NURSERY, York, Nebr.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM HARRISI

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

LILY BULBS

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston, Mass.
Two New Lilies from China.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Edward W. Breed, 94 Prescott St., Clinton, Mass.
For page see List of Advertisers.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

PALMS, ETC.—Continued

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

Pansy Seed—"Mile High" Strain, the result of years of selection and the addition of the best from numerous sources. Colors, size and habits, extra good. Trade Pkt., $1.00; 6 Pkts., $5.00; 12 Pkts., $9.00. THE PARK FLORAL COMPANY, Denver, Colo.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

W. L. Gumm, Remington, Ind.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER. Canal Dover, O.

Peonies—French Peonies. Write for my new descriptive catalogue which has just been issued. DESSERT, Peony Specialist, Chenonceaux, France.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

Frank Oeschlin,
4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMULAS

Primula obconica and Primula chinensis, best varieties, at $3.00 per 100; $25.00 per 1000. Cash please. J. H. FIESSER, North Bergen, N. J.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Winter-Flowering Roses.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 295

SEEDS—Continued

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea and Mignonette Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
New Zealand Spencer Sweet Pea Seed.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Giant Pansy Seed.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 72 Cortland St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

PHOENIX ROEBELENII.
We expect from our collector a fresh harvest. Price on application.
SANDER BRUGES, BELGIUM,
and 258 Broadway, New York, N. Y.

Ginseng Seeds—Fine lot of stratified seeds, ready for planting, $6.00 per lb.; less than a lb., $8.00. Cash. C. K. WHITE, Randolph, Vt.

Rocky Mountain Columbine Seed (Aquilegia Coerulea). The Colorado State flower. True to type. Seed grown from collected plants and we grow no other variety. New crop now ready. $1.00 per oz. Write for prices in large quantity. THE PARK FLORAL COMPANY, Denver, Colo.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

T. W., care "Horticulture."
For page see List of Advertisers.

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

Henry Jerolaman, Hilton, N. J.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St.
Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

New York—Continued

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Rochester

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BARGAINS IN GLASS.

King Construction Co., No. Tonawanda, N. Y.
For page see List of Advertisers.

EARLY FALL BULBS.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

FIELD GROWN CARNATION PLANTS.

Lakeview Rose Gardens, Jamestown, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

P. McKenna Sons, Montreal, Canada.
For page see List of Advertisers.

PROFITABLE ADVERTISING.

Penn the Florist, 43 Bromfield St., Boston, Mass.
For page see List of Advertisers.

GALVANIZED BUCKETS.

S. S. Pennock Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

MAGNOLIA LEAVES.

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.
For page see List of Advertisers.

ORCHIDS.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Eng. Middlesex.
For page see List of Advertisers.

PANSY SEED.

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

THOSE RED FLOWER POTS.

Harry Balsey, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

WHOLESALE FLORISTS.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

WANTED—Nurseryman propagator, experienced in propagating shrubs, trees, herbaceous perennials, roses, clematis, etc., in large quantities. Good position for thoroughly reliable, competent man. State references, age and salary wanted. "W. N Y.," Box 1950, Rochester, N. Y.

SITUATIONS WANTED

YOUNG MAN, Norwegian, 36 years, married, wishes position as gardener (Superintendent of private place, New England), 20 years' experience under glass as well as out of doors; sober and reliable. OTTO SOMMERSCHIELD, R. F. D. 84, South Framingham, Mass.

FOR SALE

FIVE GREENHOUSES FOR SALE

Near Boston. Up-to-date buildings, some iron-frame; electric lights. Handsome office, large show windows. Steam heat. Established trade 20 years. Street cars pass the door. Steam cars 3 minutes walk. Owing to recent death of owner this property, with about one acre of land, will be sold very low. Will meet parties interested at office of HORTICULTURE by stating time. Address "M. H. N.," care Horticulture Publishing Co.

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Sharon, Mass., 17 acres, cottage house, shed, barn, two greenhouses. Cheap for cash. Full particulars. E. G. BLANEY, Swampscott, Mass.

FREE RENT of truck farm with hot house, live stock, tools, growing crops for care of young trees. Write for particulars, stating age, family, nationality, experience. WALTER SOUTHWICK, Nahant, Mass.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



SLUG-SHOT

USED FROM OCEAN TO OCEAN FOR 29 YEARS.

Sold by Seed Dealers of America.

Saves **Currants, Potatoes, Cabbage, Melons, Flowers, Trees and Shrubs** from Insects. Put up in popular packages at popular prices. Write for free pamphlet on Bugs and Blights, etc., to

B. HAMMOND, - Fishkill-on-Hudson, New York.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

POISON KIL-WORM POISON

Destroys Worms, Ants &c., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

PRICES:

1 Quart Bottle -	$1.00	1 Gallon Jug -	$3.00
½ Gallon Bottle	1.75	5 Gallon Jug -	13.50

One gallon KIL-WORM makes 50 gallons liquid when mixed with water

POISON KIL-WEED POISON

Not to be used on Lawns.

An unsurpassed preparation for removal of grass, weeds, vines and bushes from paths, roadways, gutters &c. One gallon KIL WEED diluted with water will make 30 to 35 gallons of treating liquid.

PRICES:

1 Quart Can -	$ .35	5 Gallon Can -	$4.00
½ Gallon Can	.60	10 Gallon Can -	7.50
1 Gallon Can	1.00	1 Barrel, per gal.	.65

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

When writing to Advertisers kindly mention Horticulture

What the Users Say



Cast Iron Cannot be Compared With Kroeschell

We bought a No. 2 Boiler in 1904. It takes care of 5000 sq. ft. of glass, and we could add 2000 more. We are very well satisfied. **We used a cast iron boiler before we had yours. It cannot be compared with the Kroeschell Boiler.** Your boiler has certainly a great capacity for heating water.
HALL & ROBINSON, Montreal, Canada.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

BARGAIN IN GLASS

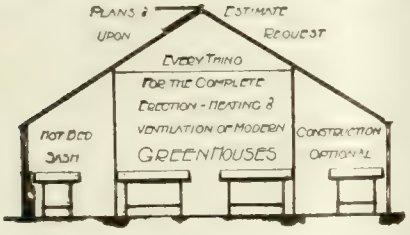
For a short time we are offering best makes of American Glass at the following prices:

$3.40	per	box	for	16 x 24 in.,	A	quality,	double	thick
3.15	"	"	"	16 x 24 in.,	B	"	"	"
3.15	"	"	"	16 x 18 in.,	A	"	"	"
2.95	"	"	"	16 x 18 in.,	B	"	"	"
2.70	"	"	"	10 x 12 in.,	B	"	"	"
2.70	"	"	"	8 x 10 in.,	B	"	"	"

Freight Prepaid to places within 500 miles of North Tonawanda, N. Y.
Cash with orders. Prices subject to change without notice.

KING CONSTRUCTION COMPANY, North Tonawanda, N.Y.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

Syracuse Red Pots

With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

STANDARD FLOWER
POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @	$4.50
1500	2	"	"	4.88	456	4½	" "	5.24
1500	2¼	"	"	5.25	320	5	" "	4.51
1500	2½	"	"	6.00	210	5½	" "	3.78
1000	3	"	"	5.00	144	6	" "	3.16
800	3½	"	"	5.80	120	7	" "	4.20
					60	8	" "	3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade



DREER'S
Florist Specialties, New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.



ADJOINING HOUSE AND GREENHOUSE

IT'S an "Old Country" idea fast gaining favor on this side.

If it is permissible over there, it's doubly so here, because of the superiority of our construction and its attractive architectural lines with no sacrifice to growing requirements.

That it is highly practical to combine the practical and the architectural, this illustration is conclusive evidence.

It is a simple graceful design that links up most effectively to the residence.

Glad to send you photos of other subjects treated in this way. You may get an idea from them that will just meet your wants

NEW YORK OFFICE
1170 Broadway

Hitchings and Company

PHILADELPHIA OFFICE
Pennsylvania Bldg.
15th and Chestnut Sts.

FACTORY, Elizabeth, N. J.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

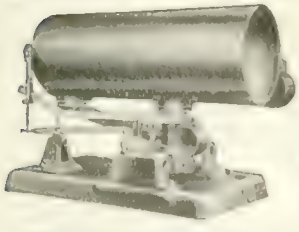
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid.
Samples free.
HENRY A DREER,
714 Chestnut Street,
Philadelphia.
FULL SIZE No. 2

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

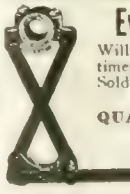


You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.
We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.
It will pay you to investigate. Write us today for catalog, prices, etc.
ADVANCE CO., - Richmond, Ind.



CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



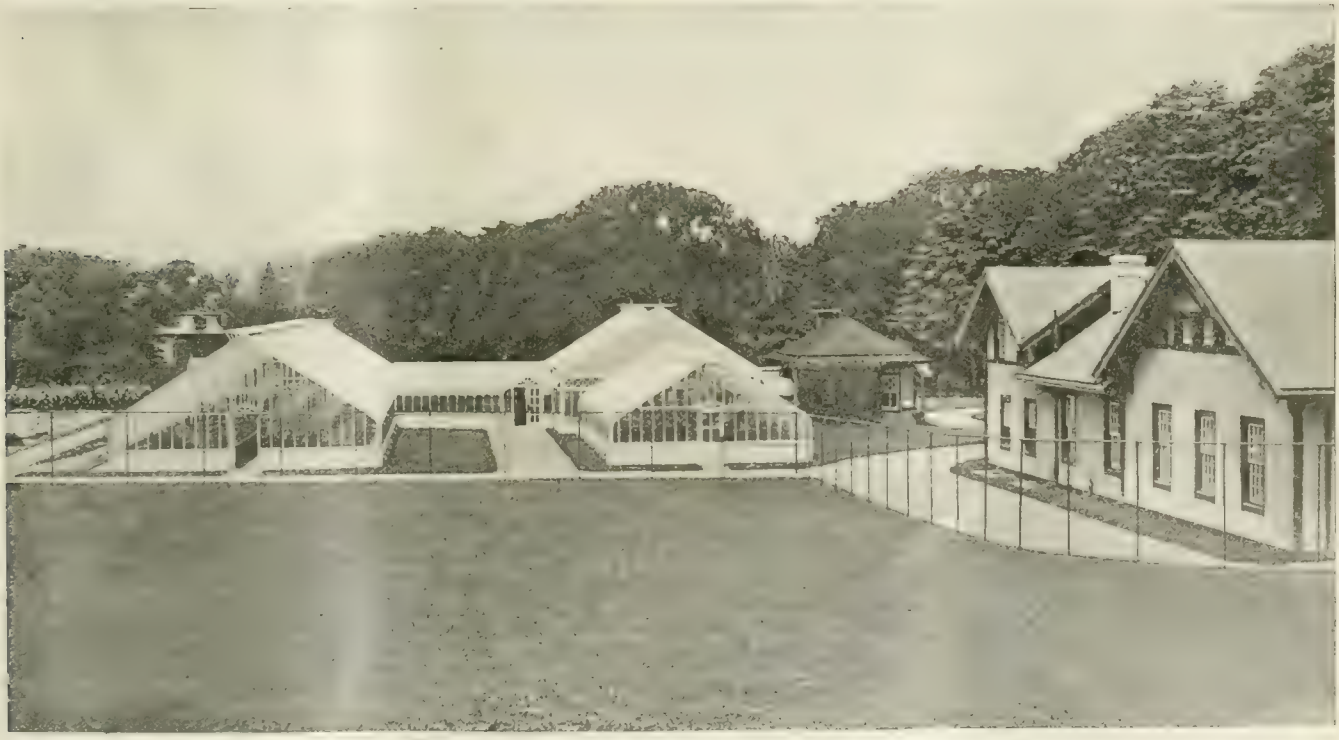
Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.



ERECTED FOR THE CITY OF WILKESBARRE, PA.

The Park Board of Wilkesbarre, Pa., comprise eight of the most prominent business men; naturally they are proud of their City; when they decided to build greenhouses, a site was selected close to the splendid **COURT HOUSE** which looms up in the rear; they instructed their City Engineers to investigate the various types of Greenhouses; the fact that the **LUTTON** construction was adopted speaks well for the adaptability of **LUTTON** houses for **PUBLIC PARKS AND PRIVATE ESTATES.**

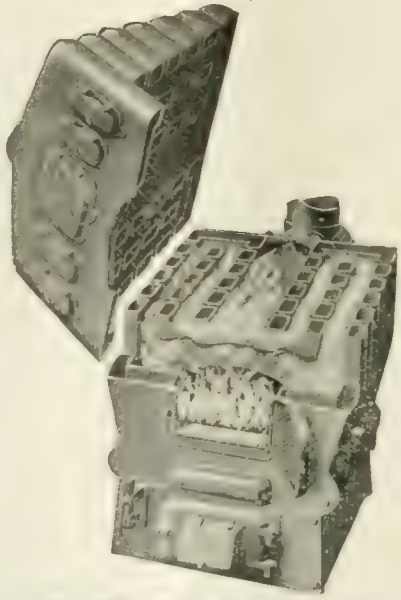


ERECTED AT IRVINGTON-ON-HUDSON, N. Y.

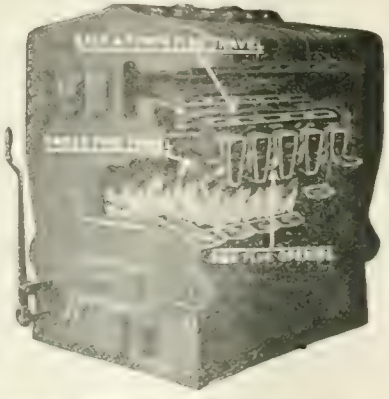
This practical grouping of the Greenhouses forms one of the most interesting features on this beautiful **HUDSON RIVER** estate. The **LUTTON CONSTRUCTION** has found favor with people who insist on having the best.

WILLIAM H. LUTTON, Jersey City, N. J.

Up Chimney Or Into Your Coils: That's The Question



To still better show you exactly how the fire comes up the side flue openings and then commences its back and forth fire travel, we cut the top off this fashion. It is peculiar looking, but it certainly does show things.



Interior view of a No. 30 Burnham Sectional Water Boiler.

IF it were possible for the heat that goes up and out of your chimney to show in visible dollars instead of invisible heat we would at once cut out our advertising, and Burnham Boilers would sell themselves. Seeing would then be believing.

By actual Burnham tests made over and over again, the gases going up the chimney have recorded themselves as containing only the necessary amount of heat to create the required chimney draft.

The same tests have shown that the water in the coils was recirculated at a velocity and temperature in excess of results produced by other cast iron vertical boilers of same size burning an equal amount of coal.

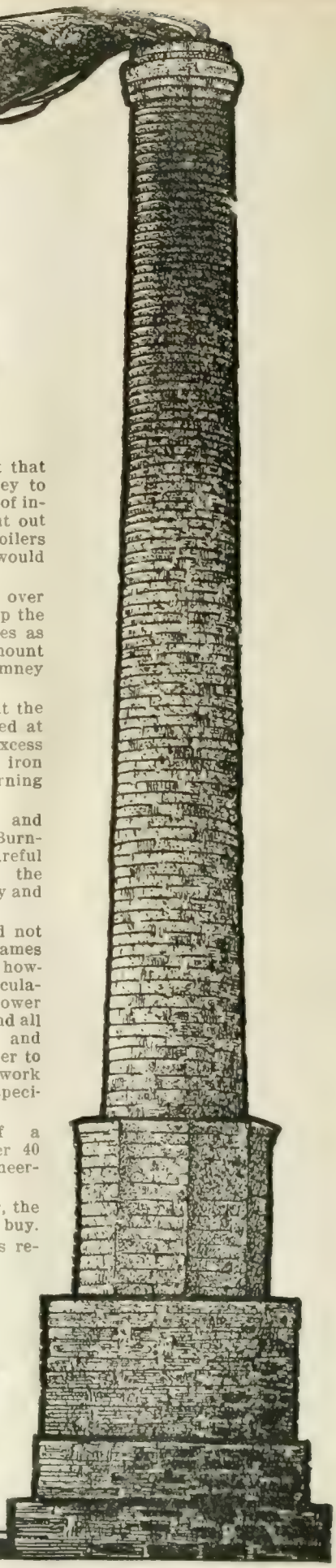
We have bought other boilers and put them side by side with the Burnham, and given each a most careful comparative test under exactly the same condition and same quantity and quality of fuel.

Of course business ethics would not permit our mentioning here the names of the boilers so tested. The fact, however, that in every test their circulation was slower and the water a lower average temperature, proved beyond all doubt what we have stated over and over again, that a greenhouse boiler to be economical for greenhouse work must be designed and made especially for such work.

The Burnham is that kind of a boiler. It is the result of over 40 years of greenhouse heating engineering thought and development.

If you want a greenhouse boiler, the Burnham's the logical boiler to buy.

We can ship same day order is received.



Lord and Burnham Company

SALES OFFICES:

NEW YORK 42nd Street Bldg. — BOSTON Tremont Bldg. — PHILADELPHIA Franklin Bank Bldg. — CHICAGO Rookery Bldg.

ROCHESTER Granite Bldg. — TORONTO, CANADA 12 Queen St., E.

FACTORIES: Irvington, N. Y. — Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. SEPTEMBER 6, 1913 No. 10

LIBRARY
NEW YORK
BOTANICAL
GARDEN.



New Winter-Flowering Antirrhinums

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

BODDINGTON'S "QUALITY" CHRISTMAS-FLOWERING

SWEET PEAS

WE ARE SUPER-HEADQUARTERS

All true stocks of Winter-flowering Sweet Peas will be scarce this season. Some varieties are a total failure owing to the exceptional season in California this Spring. **Our advice to intending planters is to order at once.**

Mr. Wm. Sim, Cliftondale, Mass., the great Winter Sweet Pea Specialist, sows our seed almost exclusively.

Our stocks of Christmas-flowering Sweet Peas have stood the test for years, and we can refer you to the largest growers of this increasing popular flower, as to the trueness and quality of our seed, earliness of blooming period and strength and habit of plants.

The following varieties are the "best by test" including Zvolanek's and our own introductions, grown for seed, from selected stocks by the leading California grower and specialist in Sweet Peas.

Our output last year was nearly 3000 lbs. No kicks and plenty of testimonials as to quality, germination and trueness to type.

THIS ADVERTISEMENT CAN BE USED AS AN ORDER SHEET

	Oz.	¼ lb.	½ lb.	Lb.
..BODDINGTON'S EXTRA EARLY CHRISTMAS WHITE SNOWBIRD. An exceptionally early Sweet Pea for indoor flowering—will bloom six weeks after sowing Color, clear white, upon long stems; habit, fairly dwarf and of exceptionally free-flowering qualities. Without doubt, the finest early white for indoor planting. We sell one grower in Pennsylvania 35 lbs. of this variety every year (name on application)	$0.25	$0.75	$1.25	$2.00
..BODDINGTON'S CHRISTMAS PINK. This is the earliest and most profitable and useful Sweet Pea in cultivation, as by sowing the seed under glass in latter part of August, flowers can be cut from Thanksgiving on during the Winter months	.25	.75	1.25	2.00
..BODDINGTON'S CHRISTMAS WHITE. A companion to our Christmas Pink. Just as free and profuse a bloomer	.25	.75	1.25	2.00
..ANGELINO. Self pink; new variety	.50	1.50	2.75	4.50
..CANARY. Similar to the Christmas White, but flowers of an exceptionally good yellow	.35	1.00	1.75	3.00
..FLAMINGO. Color, scarlet; free-flowering and early	.50	1.50	2.75	5.00
..CHRISTMAS METEOR. Scarlet; fine, open, red flower.	.35	1.00	1.50	2.50
..CHRISTMAS STELLA MORSE. Creamy buff standard, wings slightly tinged with pink	.50	1.50	2.75	4.50
..FLORENCE DENZER. Pure white	.25	.75	1.25	2.00
..LE MARQUIS. This is the same color as Princess of Wales violet; has very large flowers	.35	1.00	1.75	3.00
..MISS HELEN M. GOULD. White, open flower; standard lilac, marbled	.35	1.00	1.75	3.00
..MISS JOSEY REILLY. Lilac very large flowers	.25	.75	1.25	2.00

	Oz.	¼ lb.	½ lb.	Lb.
..MRS. A. FARENWALD. Extremely large; dark pink. Very early	$0.75			
.MRS. E. WILD. Carmine or dark pink	.25	.75	1.25	2.00
..MRS. ALEX. WALLACE. Lavender; very scarce	.25	.75	1.25	2.00
..MRS. HANNAN. Deep rose-pink; very pleasing shade	.35	1.00	1.75	3.00
..MRS. JAMES WHEELER. Salmon with orange. Best of its color	.50	1.50	2.75	4.50
..MRS. WM. SIM. Salmon pink	.25	.75	1.25	2.00
..MRS. GEO. LEWIS. Large, pure white, wavy flower	.25	.75	1.25	2.00
..MRS. W. W. SMALLEY. Satiny pink	.25	.75	1.25	2.00
..MRS. F. J. DOLANSKY. Daylight pink	.25	.75	1.25	2.00
..MRS. CHAS. H. TOTTY. Sky blue; late	.25	.75	1.25	2.00
..MRS. ZVOLANEK. Blue, variegated; good for variety	.50	1.50	2.75	5.00
..ORANGE BIRD. Orange-rose. One of the best commercial varieties	.50	1.50	2.75	4.50
..PINK BEAUTY. Large open flower; rose pink. Fine for florists	.40	1.25	2.25	4.00
..WALLACEA. Very scarce. Very fine lavender; a grand florists' variety	.35	1.00	1.75	3.00
..WATCHUNG. Pure white	.25	.75	1.25	2.00
..WINTER CHEER. Wavy, large white flower	.50	1.50	2.75	4.50
..WM. J. STEWART. Blue self	.35	1.00	1.75	3.00
..ZVOLANEK'S PINK. Soft self pink. Large flower	.50	1.50		

All other varieties not enumerated here can be supplied at advertised prices.

Please write your name and address here and mail order in good season.

NAME .....

STREET ADDRESS .....

CITY..... STATE.....

ARTHUR T. BODDINGTON, Seedsman, 342 West 14th St. NEW YORK

CECIL BROWN

The Weeping Coleus, an old but not well known variety, suitable for window boxes, hanging baskets, vases, etc., on account of its low growing weeping habit, will hang down two feet or more, small yellow and pink foliage margined green and chocolate.
2 in. $3.00 per 100, 3 in. $4.00 per 100

BRILLIANCY, the Christmas Coleus, handsome luxuriant bright carmine, yellow and green foliage.
2 in. $3.00 per 100, 3 in. $4.00 per 100

ASPARAGUS SPRENGERII, strong 3 in. $5.00 per 100
SMILAX, extra strong, 2 in. $2.00 per 100, $17.50 per 1000
Hardy ENGLISH IVY, 2 in. $2.00 per 100, $15.00 per 1000
3 in. $3.00 per 100, $25.00 per 1000
SWAINSONA ALBA, 2 in. $2.00 per 100
BEGONIA VERNON, white, pink, 2 in. $2.00 per 100
3 in. $3.00 per 100

GERANIUMS, immense stock, standard varieties, for immediate shipment, 2 in. $2.00 per 100, $18.50 per 1000, 3 in. $3.00 per 100, $25.00 per 1000.

We are booking orders for Cannas and Dahlia roots. Have over 100 acres in fine shape. Inspectioninvited. Send for list.

R. VINCENT, JR. & SONS CO. . . . White Marsh, Maryland

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

LIST OF ADVERTISERS

Page
Advance Co.....359
Albany Cut Flower Ex.....350
Allen, J. K.....350
Anderson, S. A..345
Aphine Mfg. Co.356
Aschmann, G....339
Atlanta Florist Co. 348
Ayres Co., S. Bryson 343
Badgley, Reidel & Meyer.....350
Balsley, Harry..357
Barnard, W. W. Co. 343
Barrows & Son.332
Bayersdorfer, H. & Co. 347
Bay State Nurseries 331
Bloomingdale's .344
Bobbink & Atkins 340
Boddington, A. T. 330-340
Bolgiano & Son, J. 343
Boston Florist Letter Co. .. .348
Braslan Seed Growers Co....343
Breck, J. & Son.343
Breck - Robinson Nurseries 340
Breed, Edw. W...340
Breitmeyer's, J. Sons 344
Bryan, Alonzo J.339
Burnett Bros. ...343
Burpee, W. A. & Co. 343
California Florist ... .345

Page
California Seed Growers' Asso.343
Carbone 345
Chicago Carnation Co. 348
Childs, John Lewis 332
Clarke's D., Sons 344
Clark, Everett B. Seed Co.....343
Cooke, Geo. H...346
Cowee, W. J.....350
Craig, Robt. Co.339
Dards 344
Dawson, H. S...331
Detroit Flower Pot Co.....357
Dorner & Sons Co. 332
Dreer, H. A..... 341-357-358
Dunlop, John H.345
Dysart, R. J....350
Eastern Nurseries 331
Edwards Folding Box Co.....348
Elliott's, W. & Sons 342
Eppstein, Julius.345
Ernest, W. H....357
Esler, J. G.....358
Eyres 344
Fairfield Landscape & Nursery Co.....340
Farquhar, R. & J. & Co.....339
Felix & Dykhuis.343
Ford, W. P.....350
Forrest, Frank H. 345

Page
Fottler, Fiske, Rawson Co....343
Framingham Nurseries ...340
Franklin Davis Nursery Co....340
Froment, H. E..350
Galvin, Thos. F..345
Gasser, J. M. Co.345
Goodsell, P. H..340
Grey, T. J. Co..343
Gude Bros. Co...344
Hail Association.358
Hall & Robinson.345
Hammond Paint and Slug Shot Works 356
Hart, Geo. B.....351
Heacock, Jos.....339
Heinecken, Otto..343
Henderson, A....339
Hess & Swoboda.344
Hews, A. H. & Co. 357
Hill, E. G. Co...351
Holland Nurseries 332
Hilfinger Bros...357
Holm & Olson...344
Hudson Carbon Co. 356
Interstate Tobacco Co.....356
Johnson, J. Oliver 342
Johnston Bros...345
Jones, Robert Ross 358
Kasting, W. F. Co. 351
Keller, J. B. Sons 344

Page
Kervan Co.....350
King Construction Co.....358
Kramer, F. H...345
Kroeschell Bros.359
Kuebler, W. H..350
Lager & Hurrell.339
Lange, A.....345
Lemon Oil Co...356
Leonard Seed Co.342
Leuthy, A. & Co.332
Loechner & Co..339
Lutton, W. H...359
MacMulkin, E...346
May & Co., L. L.345
McConnell, Alex..344
McCarthy, N. F. Co. 348-351
McCray Refrigerator Co.....347
McHutchison & Co. 332
McKenna & Sons, P. 345
McKenzie, John..331
McManus, Jas....350
Metropolitan Material Co.....359
Michell's Seed House 342
Michigan Cut Flower Ex.....348
Millang, Chas....350
Miller, E. S.....343
Montreal Floral Exchange 350
Moore, Hentz & Nash 350
Murray, Samuel.344
National Nurseryman 340
N. Y. Stable Manure Co.....356

Page
Niessen, Leo Co.348
Oechslin, Frank.339
Ouwerkerk, P....332
Park Floral Co..344
Palmer, W. J. & Son 344
Parshelsky Bros.358
Pelicano, Rossi & Co.....345
Penn, the Florist.345
Pennock - Meehan Co. 349
Pierce Co., F. O.358
Pierson, A. N....332
Pierson, F. R. Co.331
Pierson U - Bar Co. 360
Plant Food Co., 20th Century...356
Poehlmann Bros. Co. 348
Pollworth, C. C.344
Pulverized Manure Co.....356
Quaker City Machine Co.....358
Reed & Keller...350
Reinberg, Peter..348
Rice, M. Co.....345
Robinson Co., H. M. 350
Roehrs, J. Co....339
Roland, Thomas.332
Rolker, A. & Sons 332-357
Rosery, The.....344
Sander & Son...339
Scott, John.....331
Schling, Max....345
Sharp, Partridge & Co.....358
Sheridan, W. F..350

Page
Siebrecht, Geo. C.350
Siggers & Siggers 357
Skidelsky, S. S. & Co.....343
Smith, P. J.....350
Smith & Co., E. D. 340
Smith, W. & T. Co. 332
Smyth, Wm. J..344
Sprague, J. H...339
Stearns, A. T. Lumber Co....359
Syracuse Pottery Co. 357
Totty, Chas. H..332
Thorburn, J. M. & Co.....343
Traendly & Schenck 350
Valentine, J. A..344
Van Assche, F...358
Vincent, R., Jr., & Sons Co.....331
Wants, For Sale.357
Ward, R. M. & Co. 332
Weber, F. C.....346
Weeber & Don...343
Welch Bros.....348
Whittier & Co., W. B. 340
Wilson, Robt. G.344
Wood Bros.....332
Woodrow & Markets 350
Young & Nugent 344
Zangen, O. V....342
Zinn, J. A.....345
Zvolanek, Ant. C.343

For Buyers' Directory and Ready Reference Guide
See Pages 352, 353, 354, 355

ECONOMY OF TIME

People are coming to realize more and more that economy of time is one of the chief factors in economy of cost. And nowhere is it more self-evident than in the production of Easter Lilies. Especially in Cold Storage bulbs and Formosum. Space under glass is valuable and it does make a difference whether lilies are on the bench ten weeks or sixteen weeks before they bloom. No one knows this more then the grower who plants them in the benches—he knows the difference in real cost between the bulbs that flower evenly and those that cannot be depended upon at any certain time. Horseshoe Brand Giganteum will flower more evenly and regular then any brand known—have you ever considered this phase of the lily growing business? Prices very reasonable—upon application.

NOT HOW CHEAP
BUT HOW GOOD

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Weetton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

CHARLES H. TOTTY

CARNATIONS AND CHRYSANTHEMUMS

MADISON, N. J.

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN

Amaryllis for Christmas

To flower by Christmas, amaryllis should be given a rest now. Nearly all the newer forms and numerous hybrids of Hippeastrum vittatum, more so than the original type, have by this time completed the season's growth, and should be rested, regular watering being discontinued for a period of from four to six weeks, not leaving them so dry, however, as to cause a shriveling of the roots. Now, if this rest is brought about in September, and ending somewhere in the middle of October, the rhizomes will have attained the desired degree of ripeness and a good stand of fine flowers for Christmas is assured. The appearance of the new growth, the flower buds first, marks the end of the season of rest, and is the grower's cue for setting the plants to work. He first repots the plants into new earth, should they need repotting (an operation not needed every year), places them on a warm, sunny bench, and resumes regular watering and sprinkling. Any fairly rich, sandy soil suits them. No great effort is required to have them at their best any time right after Christmas, or all through the dead of winter. The temperature should be as far as possible, a steady heat; should neither fall below 60 nor rise above 70 degrees. In a house of 65 degrees it takes eight weeks from the time the new growth begins to push forth until the flowers are at their finest.

Dracaena indivisa

Dracæna indivisa planted out in the spring should now be lifted from the field. Do not use too large pots; 4 or 5-inch pots will do. Give a rich compost, say to three parts of fibrous loam, one of well decayed cow manure, and plenty of drainage. Place them where they can have plenty of air and after about ten days they will stand full sunshine. They like to be kept in a nice, moist state at the roots, but not to such an extent as to cause any sourness. Keep the atmosphere moist by damping down two or three times a day. Give syringing during good weather and keep a night temperature of from 55 to 60 degrees.

Lilium candidum

When getting these bulbs always insist on the best type as there are two distinct forms on the market. As soon as they arrive see that they are unpacked and potted up at once. They give better results when three bulbs are grown in an 8-inch or five in a 10-inch pot. For a compost use fibrous loam three parts, well decayed cow manure one part and enough of sand to make it quite sandy. Use plenty of clean crocks to insure perfect drainage, which is absolutely necessary. If the compost is moist they will not need any water at once. They can be placed in some frame where they are exposed to full sun. During heavy rain place some sashes over them so the soil will not become sodden. They can be kept out in a frame until January; just plunge the pots and allow them to freeze as they force much better for it.

Planting Antirrhinums

One of the best paying crops to succeed the early chrysanthemums is a house of the winter-flowering varieties of snapdragons. Although many of our best florists have now gone extensively into this culture it will be some time before it will be overdone. As in all other branches of the cut flower industry, the high-grade product will always meet with a remunerative demand. They can be planted about a foot apart each way. Be always very particular when watering antirrhinums. It is better to look over the benches before you begin and locate the dry and wet spots which will enable you to keep the bench at an even moisture and thus ensure a more even growth through the beds. When well established they will stand good steady heat 55 to 60 degrees at night together with plenty of water, air and light. Keep them nicely disbudded as this will throw the strength into the flower or spikes. When the benches become filled with roots give some liquid feeding.

Rambler Roses

Stock intended for next spring sales will need attention so as to have the wood in fine shape. Where grown in pots all summer, which is without doubt the best way, place all such stock outside where they can have the benefit of the cool nights. To ripen them up they should not get much water at the roots, withholding a little each week for the next three or four weeks. After that they can be placed on their sides to avoid the fall rains and can stay outside until real cold weather sets in, when they can be placed in a frame, covered with some hay or straw and protected with sashes. Field-grown stock can be lifted any time after September 20. When lifting preserve all the roots possible and pot in any good rich mixture and also keep outside.

Potting Evergreens

Now is the best time for those having a demand for small evergreens during the holiday trade to procure and pot them up. Get nice well-balanced trees from any nursery advertising in HORTICULTURE and give them as small pots as will hold the roots. By potting these evergreens up in advance they make new roots and become at home before the cold weather sets in. Give them a rather shady place for about ten days and after that they will stand full sun.

Mr. Farrell's next notes will be on the following: Compost Supply; Lifting Shrubs for Forcing; Making Outside Lily Beds; Nephrolepis, Transplanting Large Palms; Starting Fires.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

The Fig House

Fig trees will now be nearing the resting period after producing three good crops. Even though there may be a few fruits that are not quite ripe gradually work them up to having full air night and day. If this is done gradually these late fruits will finish all right. Keep the trees well syringed and do not let the roots want for water.

Melons Cracking

It sometimes happens that just about the time a melon should finish it cracks open—a most disappointing catastrophe, as it frequently happens that the crack is right through the flesh and there is no chance to save it and even were this possible it would be useless for the table. If the crack is noticed the same day as it commences to open, under suitable treatment it may be stopped before it reaches the seed cavity, in which case it will finish up and be edible but not presentable on the breakfast table. This cracking is generally attributed to an excess of sap and energy at a time when nothing above normal is required. It must be remembered this happens just prior to the fruit's "turning" (i. e., the first stage of ripening). Now, to boost a quantity of quick-acting feed into them at this stage is seeking trouble, not only from cracking, for it will affect the flavor. Instead of slightly diminishing the water at the roots, increasing the same at this stage may have the same effect. To keep a house closer than usual in a morning, causing an excess in temperature of fifteen or twenty degrees when a slightly lower than normal would be more congenial, may also cause some of the fruits to crack. If detected in time to save the fruit make a slight cut in the lateral carrying it to check the flow of sap. It will be found a distinct advantage to cut out a small portion of the stem V-shaped. By just making an insertion of the knife some sap at times will pass through and the cut heal up. Keep the house a trifle cooler, omitting shutting up close in the afternoon and evening, also keep the roots a trifle dryer but not dried out. This treatment will have the desired effect.

Winter Cucumbers

Make a sowing of cucumbers to furnish the winter crops during this month. These plants can be raised all the year round the same as melons but it pays to have them growing well before the short days come on. They have an advantage over melons as they crop continually until worn out, whereas their sister of the same order has to set a crop when it shows and be through with it. It is not necessary to plant up a whole house as is the case with melons. A young growing plant will take the same care, temperature, and atmosphere as a plant that is cutting fruit. Where a continuous supply is required for home consumption divide the house or houses to be given up to them into five parts, planting one-fifth of the space every ten days. If this is started the first of September it will mean the last sowing will be made on the 20th of October which is plenty late enough to get any kind of growth on them before Christmas. These will carry on fruiting until the plants sown the first of the year come in. Sow the seeds singly in three-inch pots in light soil, giving them a night temperature of 70 degrees, which must not be reduced at any time if the best results are to be obtained. It is a strange coincidence that one of the older varieties of cucumbers is still to the front the same as Hero of Lockinge melon that was referred to last week. This is Telegraph cucumber. True it has been improved and is known as Improved Telegraph but it still carries the same qualities. For an all-round variety this will be found equal to any. There are some of the newer ones which excel it in some respects; take Matchless for instance, which will often beat it in size but not in the quantity produced. Every Day again will produce more fruits but they are smaller.

Spawning Mushroom Beds

When the temperature of newly-made mushroom beds has receded to about 85 degrees insert the spawn. Take care that the thermometer has been registering from the same depth as the spawn will be placed at and also be sure the bed is receding in temperature; should it be standing at 85 wait until it shows a downward tendency, as this is the limit in heat. Some growers will spawn at a lower temperature and while the crops may be good they will take longer to come. Break the bricks of spawn up into pieces about the size of a hen's egg and insert them nine or ten inches apart and six inches deep. Do not cover the bed right away when spawning at this high temperature, but leave it about five days when it will have gone down several degrees and then case it over with virgin loam about an inch-and-a-half thick. Mushrooms will be ready to pick in six weeks under favorable conditions. It will be advisable to damp the surface of the beds over together with the walls, etc., once or twice a day if the cellar is not naturally damp. Keep the temperature from 50 to 55 degrees at all times. Continue to make up new beds for successive crops.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Růžička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Cutting Roses

As soon as the cooler weather starts in, the buds which heretofore had been cut quite tight, can be allowed to become much larger, as the danger of their opening out too much is greatly reduced, and the larger buds are much more attractive, and will therefore find a better sale. The market does not want any flowers that are too far open, and great care should be used to have them cut as nearly alike as possible, i. e., to have the buds about the same size, and same stage of development. Put all the blooms into water at the earliest possible moment after cutting. Where a large number are cut, have them graded as soon as possible, and get the stuff into water at once.

Ice

Just because the weather is a little cooler is no reason why the ice box should be allowed to become empty, even for a while. Keep it cold, as an ice box should be. Where ice is made right on the place it is a very simple matter to run the machine once or twice a day, as conditions may call for. From our experience it is the most profitable way to have ice-making machinery right there to fill the ice box at any time on short notice.

The Supply of Bone Meal

Did you ever wish to top-dress some of the benches and then discover that the supply of bonemeal was exhausted? This happens many times and on many places. It is not only annoying, but often we lose quite a little growth, because the bone cannot be applied at the proper time. Places vary in glass area and the growers ought to know how much bone is necessary for the season, ordering it all at once, early, so as to be sure that it is on hand when it is wanted. It may seem a large sum to lay out at the one time, but when you figure up the total you pay by buying a bag at a time, you will no doubt find that the money will be well invested.

Tobacco Stems

These with us are a little out of place, when we consider that there are so many good materials in the market that can be used much easier and with greater safety. Often we have to smile at the old tobacco pot standing in the shed, and then think of the simpler ways of today. The best places will not have a single fly around their plants. All the vitality the plants possess should go into the production of flowers, and not to feed hundreds of parasites. Where tobacco stems are still to be used it is well to give careful attention in preparing them for the smoke pot. The drier they are used the more effective will the smoke be, and the more dangerous to the plants. Be very careful not to allow the stems to burn with a flame, as that makes very hot smoke, which burns the foliage. The stems should only be allowed to smoulder and smoke. When the stems are sprinkled to be too wet, the smoke will become about half steam, and lose its killing power. Never light a pot and then leave it to its own fate. Better pull it up and then down the houses, filling the houses full on the last trip. This is not very pleasant work, to say the least, but it can hardly be done any other way and be done right.

Sod for Next Season's Potted Plants

If you have no sod remaining after filling the houses, start at once to make your heap of soil that is to be used for potting the young plants next winter. If this is allowed to go by, and no soil is on hand when potting is to be done, you know what that will mean, with the ground frozen. The best soil we like to use is left-over sod. This is stored under cover, and then it can be used at any time during the winter months.

Winter Flowering Snapdragons

For a number of years H. Huebner of Groton, Mass., has been studying and working to do for the antirrhinum what Zvolanek has done for the sweet pea by evolving a reliable winter-flowering strain. How well he has succeeded is indicated in the illustration shown on the cover page of this paper, which is from a photograph made in middle of January last. After years of crossing and recrossing Mr. Huebner has finally fixed the strain in the three popular colors, yellow, pink and white. As no snapdragon can be depended on to come true from seed, propagation is effected by cuttings from selected plants only. Cuttings are usually taken in October. We understand the stock is to be placed on the market during the coming season.



GROUP OF VISITORS AT H. F. MICHELL CO.'S GARDENS, ANDALUSIA, PA.

HORTICULTURE

VOL. XVIII SEPTEMBER 6, 1913 NO. 10

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—New Winter-Flowering Antirrhinums.

NOTES ON CULTURE OF FLORISTS' STOCK:
Amaryllis for Christmas—Dracaena indivisa—Lilium candidum—Planting Antirrhinums—Rambler Roses—Potting Evergreens—*John J. M. Farrell*..... 333

FRUIT AND VEGETABLES UNDER GLASS:
The Fig House—Melons Cracking—Winter Cucumbers—Spawning Mushroom Beds—*George H. Penson*. 334

ROSE GROWING UNDER GLASS—Cutting Roses—Ice—The Supply of Bone Meal—Tobacco Stems—Sod for Next Season's Potted Plants—*Arthur C. Ruzicka*.... 335

WINTER FLOWERING SNAPDRAGONS..... 335

ABOUT THE HARDY FLOWER GARDEN—*Gerhard Bleicken* 337

CLUBS AND SOCIETIES—American Gladiolus Society—Chrysanthemum Society of America—Convention Games 338
Gladiolus Society of Ohio—Florists' Club of Philadelphia—New London Horticultural Society—New York State Federation of Floral Clubs—Horticultural Society of Chicago Exhibition—Club and Society Notes. 346

SEED TRADE—Estimates—Beans, Corn and Cabbage—European Root Crops—In the West..... 342

OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 344
Flowers by Telegraph 345

WALTER MOTT'S NOTES BY THE WAY..... 347

OBITUARY—William Henry Maule—Charles Akehurst—Frank Zetter—John George Strodtbeck..... 347

FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati..... 349
New York, St. Louis..... 351

DURING RECESS—Chicago Florists' Club..... 351

MISCELLANEOUS:
Visitors at H. F. Michell Co.'s Gardens, Illustration. 335
Importations of Trees and Tree Seeds..... 337
Kentias in Houses Without Benches, Illustration.... 338
Care of Lily of the Valley..... 338
Catalogues Received..... 339
Cincinnati Notes..... 345
News Notes..... 345
Chicago Notes..... 347
Personal 351
A Baltimore Deal..... 351
Forestry Topics..... 356
Plant Quarantine Decision No. 4..... 357
Publication Received..... 357
Greenhouses Building or Contemplated..... 358
Patents Granted..... 358

The artist gardener

The contribution by Mr. Bleicken in this issue on color and form harmony in herbaceous planting brings to the front a timely topic in a somewhat original vein. Anyone who has taken particular notice of the herbaceous beds so prevalent in present day gardening, especially where anything like formal arrangement of beds, borders and walks has been undertaken, must acknowledge that in very many instances Mr. Bleicken's implied criticism is well-founded. One does not have to look very far to find some awful conglomerations of incongruous form and clashing color—very often composed of splendid material in itself but violating in its arrangement the principles of artistic taste and good judgment. Here is presented a boundless field for study and experiment and no young gardener who masters the art and puts it into practice need worry about his future. The subject is one well worthy of thoughtful discussion and our columns are open to any of our readers who may wish to follow Mr. Bleicken either in support or dissent.

Real expansion

Should the Society of American Florists and Ornamental Horticulturists adopt some plan whereby local clubs and societies may be merged into direct membership, as now seems quite probable, it will have taken one of the most radical and far-reaching steps in its history. To put the proposition in practical working shape will require careful study from several standpoints for there are some hard nuts to be cracked, but the scheme as so earnestly advocated by its sponsors is not an impossible one and the most hopeful augury for its success is the generally favorable attitude of the S. A. F. members, most of whom are also on the roll of one or more florists' clubs or local horticultural societies. So we look to see whatever stumbling-blocks there may appear, easily removed, for "where there's a will there's a way." Closer affiliation between the S. A. F. and the various national organizations devoted to special flowers or plants is a different proposition, requiring different treatment but we hazard the prediction that this, too, will before long become an accomplished fact.

A promising vista

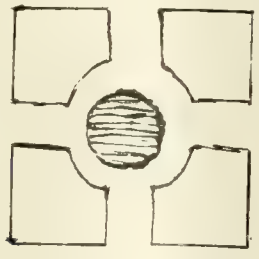
Visitors to the Minneapolis convention will all agree that the one most distinguishing and impressive feature there was the superb display of outside planting. We can well remember when the desirability of such an annex to the annual convention was broached a good many years ago by W. A. Manda. The first attempt at its realization was at Dayton, O., where a modest beginning was made possible by the location of the convention hall in the fair grounds and the co-operation and assistance of the National Cash Register people through the gardener in charge of the planting about their buildings. Seeing how valuable a feature this can be made it is unfortunate that facilities such as were enjoyed at Minneapolis or even at Dayton must be very rare in the history of conventions. It is particularly gratifying, therefore, to learn that the prospects are excellent for the installment at Boston next year of an outdoor display on an extensive scale and, no doubt, the Minneapolis success will lead many nurserymen and plantsmen who did not exhibit there to see its trade value and to put in an appearance at Boston. We would not be surprised if this department should attain astonishing proportions on this particular occasion.

ABOUT THE HARDY FLOWER GARDEN

This is about the time when planning is in order for replanting or new planting of herbaceous beds and borders. My experience and observations in this work may be of some interest to other gardeners at this time. For eight years I have been trying to solve the problem of color and form in herbaceous plantings. Feeling and believing almost from the first, that the promiscuous mixing of hardy herbaceous plants violates principles of harmony and balance, I have tried to analyze the principles of art in carpet bedding and to apply the same in herbaceous plantations, as far as possible. Whatever objection one may have to carpet bedding, especially in unsuited locations on the lawns and in park secenecy, one cannot deny that good principles of form and color selection were successfully practiced by most gardeners twenty-five and thirty years ago in the carpet bedding of that time.

I find, that the charm of restfulness and calmness in form and gayety in color was due mostly to simplicity of arrangement—certain repetitions of lines—and a restraint in choice of material. Too much variety in plant species and too many varieties in colors within the species are to blame, when we have only good looking groups or beds of plants for our labor, but not a "garden." And when we have not a whole garden with a real garden spirit in it, the artistic excellence in details is of no lasting merit. It would be positively ruinous to the artistic value of a garden 60 by 100 feet to grow in it most of the catalogued species of herbaceous plants. Besides, the practical work of taking care of such a garden would far exceed the results obtained.

The beds described below furnish, I believe, a good example of linear forms in leaves and growth, with yellows and blues and their secondaries for colors. The four beds are about 16 by 16 feet each and grouped,



as shown in the diagram, around a smaller circular bed of tritomas or yuccas with yellow daffodils for spring bloom.

The list of plants in these four beds is as follows: Fritillarias and snowdrops alternating with some very low herbaceous plant of yellow or blue color or between pansies for a border to join the beds to the grass walks around them. These joining borders should vary in width from one to two or three feet, those making irregular outlines against the bed itself, but a straight line against the walks. A few clumps of early tulips, yellow or brownish in color, followed by larger clumps of Darwin tulips of similar colors; then early German iris, hemerocallis, Spanish iris, Japanese iris, Hyacinthus, candicans and funkias, all in groups and clumps, yet so distributed as to give bloom of each species and variety over the beds. The distributing must always be left to the individual taste and feeling of the gardener. Leaves and colors vary of course in these beds, but not enough to disturb the sensation of a distinct "motiv" in the picture, carried out through the whole season. The "motiv" for these beds is taken from scenery in low moist grass lands, in the vicinity of a pond or river.

[I borrow the word "motiv" from C. Schneider's (Germany) book on Landscape Gardening and use it in the same sense as it is used in this book.]

Here is another combination, which I believe does not mix form and colors inharmoniously. English daisies for border, then sweet williams in reds, crimson, white, scarlet and pink. Scarlet and red phloxes divided by Achillea The Pearl, and a few white asters for later autumn. Colors would vary from white and pink to red, scarlet and crimson, excluding all yellows, blues, purples, etc.

There are many other good combinations as monardas and gaillardias with helianthus, coreopsis and other compositae; perhaps blue asters in late fall, or hibiscus with hollyhocks and foxgloves with other large-leaved plants of colors mauve pink and red. Or thalictrums with aquilegias, delphiniums, spireas, etc.

These and many more can be used without giving one the impression of cramming a lot of uncongenial plants into one particular place for the sole purpose of having something in full flower all the time. These groupings are not to be understood as essential but are suggested only to illustrate what I maintained in the beginning in regard to greater harmony and simplicity of both form and color in our use of herbaceous plants. If such beds are not always in full flower I think it is also interesting and pleasing to see a bed of plants just budding and to watch the unfolding of a garden picture from day to day.

I take it for granted that all gardeners know and practice to make all herbaceous beds very fertile with a soil depth of at least 1½ feet. The close growing together of so many plants in one bed makes a deep rich soil an absolute necessity to thrifty growth.

Gerhard Bleicken.

Plymouth, Mass.

IMPORTATIONS OF TREES AND TREE SEEDS.

Figures gathered by the federal quarantine board of the Department of Agriculture show that during the past fiscal year 3,779,041 growing trees and 15,040 pounds of tree seeds were imported into the United States. The trees include, say the members of the board, valuable species that do not grow in the United States and stock which can at present be bought more cheaply abroad. The tree seeds imported are largely for the purpose of reforesting land, though in a number of cases they are used in ornamental planting on individual estates.

France leads in the number of growing trees sent here, with a total of 1,782,255. Germany is second with 849,245, and Holland third with 690,632. Imports are made from thirteen other countries, including India, Japan and Australia. The trees and shrubs imported are chiefly evergreens, such as pines, spruces, and firs, and broadleaf plants—oaks, maples, etc. The majority is stock of foreign origin, though many in a few cases cultivators abroad through a special selection of attractive forms of our native trees have developed them to such an extent as to make them desirable to purchasers here.

Besides more than seven tons of tree seeds, many thousands of pounds of seed of perennial and annual plants, bulbs, and fruit stock, as well as ornamental shrubs, are imported. The greater part of the tree seeds, or more than 7000 pounds, come from Ger-

AMERICAN GLADIOLUS SOCIETY.

Report of Judges at Minneapolis Exhibition.

The report of the judges of the gladiolus exhibit was as follows:

Best new seedling, 3 spikes; C. Betscher prize.—H. W. Koerner, Milwaukee, Wis.

Twenty-five spikes Dawn; B. Hammond Tracy prize.—Arthur Cowee, Berlin, N. Y.

Chicago White; Vaughan's Seed Store prize.—H. W. Koerner.

Mrs. Francis King; Vaughan's Seed Store prize.—E. E. Stewart, Brooklyn, Mich.

Princeps; Vaughan's Seed Store prize.—H. W. Koerner.

Golden Queen; E. E. Stewart prize.—H. W. Koerner.

Twelve varieties now in the market, 3 spikes each; Peter Henderson & Co. prize.—H. W. Koerner.

Collection of 10 varieties, 6 spikes each; W. Atlee Burpee & Co. prize.—H. W. Koerner.

Twelve spikes any white variety; M. Crawford prize.—Jacob Thomann & Sons, Rochester, with Rochester White.

In the special classes, Jacob Thomann & Sons won first prize for six spikes any white variety, with Rochester White. D. W. C. Ruff, St. Paul, won second, with the same variety.

For six spikes, any yellow, Vaughan's Seed Store, Chicago, won the Michell medal, with Schwaben, the Perkins-King Co. of W. Mentor, O., winning second with Niagara.

For 25 spikes any white variety, Jacob Thomann & Sons won first; W. W. Wilmore, Jr., Denver, second.

CHRYSANTHEMUM SOCIETY OF AMERICA.

In accordance with the invitation extended by the Horticultural Society of Chicago and the Chicago Florists' Club the Chrysanthemum Society of America will hold its next meeting and exhibition at Chicago, November, 1913. They have arranged for the exhibition to be held at the Art Institute, Chicago, Ill., November 5th, 6th and 7th, 1913. The preliminary prize list has been mailed with the Chrysanthemum Society's annual report to all members. Extra copies of the premium list can be obtained by applying to Mr. R. J. Haight, secretary of the Horticultural Society of Chicago, 536-538 South Clark street, Chicago, Ill., to whom all entries for the show are to be made.

Reply postal cards concerning the compromise scale as suggested by ex-Pres. Elmer D. Smith have been mailed to all members of the society for their vote on the question. The response has not been as large as it ought to have been. According to the answers received the majority of the members are in favor of more points for color than as suggested by Mr. Smith and I conclude the scale that could be arrived at from the views expressed would be as follows:

Color 25.—Form and fullness, 20; size, 30; stem and foliage, 25.—Total, 100. CHAS. W. JOHNSON, Secretary.

CONVENTION GAMES.

Our list of the winners in the various sports on Saturday, August 23, at Minneapolis, was unfortunately delayed in transmission and did not reach this office in time for insertion in last week's issue. It was as follows:

Girls' race, 10 years and under, 40 yards—Miss Sterns, Minneapolis, 1st; Miss Nagel, Minneapolis, 2nd; Miss Raymers, Minneapolis, 3rd.

Boys' race, 10 years and under, 50 yards—E. A. Lutey, Minneapolis, 1st; Jack Fox, Minneapolis, 2nd; A. Billsky, Minneapolis, 3rd.

Girls' race, 15 years and under, 60 yards—Miss L. Nagel, Minneapolis, 1st; Miss Monson, Minneapolis, 2nd.

Boys' race, 15 years and under, 100 yards—Robert Poehlmann, Chicago, 1st; P. H. Roland, Nahant, Mass., 2nd.

Single ladies' race, 50 yards—Miss H. Swanson, Minneapolis, 1st; Miss A. Anderson, Minneapolis, 2nd.

Married ladies' race, 50 yards—Mrs. W. D. Desmond, Minneapolis, 1st; Mrs. A. S. Rice, Minneapolis, 2nd.

Men's race, 125 pounds and over, 200 yards—J. S. Dougherty, Minneapolis, 1st; A. Von, Minneapolis, 2nd; J. C. Schneiderhun, Minneapolis, 3rd.

Fat men's race, 100 yards—Robt. Shoch, Philadelphia, 1st; C. E. Critchell, Cincinnati, 2nd; Jos. A. Manda, West Orange, N. J., 3rd.

Wheelbarrow race, men—A. Miller and J. C. Schneiderhun, Minneapolis, 1st; A. Von and J. S. Rovik, Minneapolis, 2nd.

Wheelbarrow race, boys—W. Peterson and Ed. Nicholson, Minneapolis, 1st; D. Swanson, St. Paul, and H. Rosacker, Minneapolis, 2nd.

Double race—J. C. Schneiderhun and A. Miller, Minneapolis, 1st; E. G. Perl, Minneapolis, and H. Walker, Rochester, N. Y., 2nd; A. Von and A. W. Johnson, Minneapolis, 3rd.

Women's ball throwing contest—Miss Vera Poehlmann, Chicago, 1st; Miss Peterson, Cincinnati, 2nd; Miss Nelson, Cincinnati, 3rd.

Hundred yard open event, with head on starting line—J. E. Dougherty, Minneapolis, 1st; J. C. Schneiderhun, Minneapolis, 2nd; A. Von, Minneapolis, 3rd.

All-four race—R. Ruedlinger, Minneapolis, 1st; D. Swanson, St. Paul, 2nd; H. Rosacker, Minneapolis, 3rd.

Egg and spoon race, women—Miss L. Ruedlinger, Minneapolis, 1st; Mrs. T. L. Bebinger, Des Moines, Ia., 2nd.

Tug of war, East vs. West—Won by the West, Harry Papworth, captain.

Tub race—Carl Swanson, Minneapolis, 1st; Theo. Wirth, Jr., Minneapolis, 2nd; Conrad Wirth, Minneapolis, 3rd.

Swimming race—A. Von, Minneapolis, 1st; James N. Heacock, Wyncote, Pa., 2nd; Earl Poehlmann, Chicago, 3rd.

Baseball game, Minneapolis vs. All Stars—Won by Minneapolis, 2 to 1.

KENTIAS IN HOUSES WITHOUT BENCHES.



View at Dreer's Riverton, N. J., Establishment.

CARE OF LILY OF THE VALLEY.

The following rules in reference to the care of lily of the valley pips and their cultural requirements have been published in poster form by the German Society of Lily of the Valley Growers:

1. Never let my pips be uncovered or exposed to sunshine and wind.
2. Cover me with earth or other shading materials, and let me have always the necessary moisture.
3. Cover me in winter time with short manure.
4. Do not hurt me, when separating my principal roots or in sorting, and you must never break off my flank pips but cut them.
5. Let me never be suffocated among weeds when growing; I want light and sunshine.
6. Protect me against frost during transport.
7. Let me have sufficient moisture when you preserve me in cold storage boxes or barrels.
8. Always use fresh moss for packing, and spread coarse sand between my roots.
9. Always use boxes instead of baskets for packing, and take care that my flank pips are not pressed against the sides.
10. Never call me first quality when I am only second or third; when I am an early-flowering I do not belong to the first quality.
11. Inform every buyer whether I am an early or late flowering variety, and if I am grown on humus, sand or clay soil.
12. Do not sell me too cheap, or else it will not pay you to grow me.

CATALOGUES RECEIVED.

W. E. Marshall & Co., New York.—Catalogue of Bulbs, Autumn, 1913.

F. E. Conine Nursery Co., Stratford, Conn.—Catalogue of Choice Nursery Stock for Fall, 1913, and Spring, 1914. An excellent reference book on ornamental nursery and landscape material.

Harlan P. Kelsey, Salem, Mass.—List of American lilies, trilliums, hardy cypripediums and other native spring flowers. Also Catalogue of hardy American rhododendrons and specimen evergreens.

Peter Henderson & Co., New York.—Autumn Catalogue, 1913. Fine suggestive cover in colors. Bulbs, shrubs, perennial flower seeds, sweet peas, etc., are fully featured in the 80 pages of this up-to-date fall list.

Elm City Nursery Co., New Haven, Conn.—Complete Illustrated Catalogue for 1913. A comprehensive, well-arranged and handsomely illustrated publication. A model of printing art. With it comes a supplementary list, in same style, of useful garden material for autumn planting.

A Dessert, Chenonceaux, France.—General Catalogue of Peonies and Irises. We need not remark that this catalogue is a standard wherever the peony is known and planted. The present edition is printed in two languages—French and English. It is replete with useful cultural information.

J. G. Harrison & Sons, Berlin, Md.—Catalogue of Fruit and Ornamental Nursery Stock. This is an unique catalogue. A large amount of useful cultural information is given and a number of the fruits listed are illustrated in natural colors. The Harrison's Nurseries comprise over 2,500 acres.

CHRISTMAS PEPPERS

Celestial and all other Peppers. Strong plants with Fruit from 4½ in. pots, $10.00 per 100.

RUBBER PLANTS (Ficus Elastica)

Strong stock from 6 in. pots 20 to 24 in. high, $6.00 per doz.

500 or more at 1000 rates. Cash with order.

FRANK OECHSLIN
4911 Quincy St., Chicago, Ill.

POINSETTIAS,
TRUE TYPE.
Shipped in Paper Pots, June Delivery.
2½ INCH PLANTS, $6.00 PER 100
Write for Prices in Large Quantities
A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA
5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.
Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

MIGNONETTE
Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅓ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

Flowering, Decorative and Vegetable Plants
In abundance at all times. See our display adv in HORTICULTURE, May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED.
Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinnerii, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.
LAGER & HURRELL, Summit N. J.,

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N.J.



Mignonette

Boddington's Majesty

THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.

Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.

Arthur T. Boddington
SEEDSMAN
342 West 14th St., New York

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST W. B. WHITTIER & CO., So. Framingham, Mass.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb, 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

STOCK for FALL DELIVERY

EXCELSA RAMBLERS.

The finest Crimson Rambler, good color, good foliage, good habit, field-grown plants, well branched, own roots. $4.00 per dozen.

ANEMONE JAPONICA.

Alba and Queen Charlotte. Strong field grown plants. $2.00 per doz. $15.00 per 100.

SHADE TREES.

American Elms,	5-6 ft.	$35.00	per 100
Ash-leaved Maples,	7-8 ft.	35.00	" "
White Ash,	5-6 ft.	30.00	" "
" "	6-7 ft.	35.00	" "
Green "	5-6 ft.	30.00	" "
" "	6-7 ft.	35.00	" "

Strong stock with splendid roots. All of the above our own growing. No charge for packing.

Ramblers and Perennials a specialty. Special prices to the trade.

EDWARD W. BREED
94 Prescott St., - Clinton, Mass.

When writing to advertisers kindly mention HORTICULTURE.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties .... for ....

Immediate Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BALTIMORE NURSERIES

California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouillere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

Seed Trade

Estimates.

How rapidly has the summer flown, and soon we shall say, "The summer is past, the harvest is ended," and we can ask, "what has the harvest been?" Shortly we shall be able to answer this question, but just now estimates are the nearest we can get to it, and these only general in the main. Few crops have been harvested and growers are reluctant to put their estimates into figures. Since our last crop notes, no changes of importance have occurred. We can add but little to what we said about peas. Conditions are apparently favorable, but until threshing has become general, thus revealing the actual yields, all estimates are really guesses.

It may be well to call attention to what may prove to have been an important factor affecting the crop. Our readers will, no doubt, recall our reporting a severe frost late in July over a considerable part of Montana and Idaho, and which undoubtedly caused more or less damage, but whether more, or less, remains to be shown. It is a curious fact that the pods of peas which have been frozen often continue to grow, sometimes attaining unusual size, but without a single well-developed pea, while young peas partly grown have to be discarded because of their vitality being destroyed. Under such circumstances unless estimates are made only after very painstaking investigation, they are liable to be very misleading, and wide of the facts. It may be recalled that some estimates last year were very inaccurate, due mainly to the cause above mentioned.

Beans, Corn and Cabbage.

Ill news comes to us about beans. The long period of drought, combined with the intense heat prevailing much of the time has caused severe damage to the crop in Michigan and New York State. The character of the soil chosen as a rule for beans, is a sandy or gravelly loam, and therefore not well adapted to resisting drought. It seems to be generally agreed that we are in for a short crop of beans, though the extent of the shortage no man knows.

It is much the same with corn, both sweet and field varieties. Some very good judges estimate the shortage from 25 to 50 per cent. of an average yield. Undoubtedly, corn all over the country has been pretty hard hit, and choice seed is likely to reach a higher level of prices than for several years past. It is reported that canned corn has advanced 20 per cent. in the past two months despite the heavy carry over, much the largest in the history of the canning industry.

More definite information about the cabbage seed crop of Long Island shows that it was not over 50 per cent. of an average. We have received no figures from Puget Sound—simply that the crop was short.

European Root Crops.

The European shortage in biennials, particularly roots, will, with the possible exception of turnips, be fully evened up by the large carry over, and the stocks grown in this country. While there will doubtless be a firmer market on turnips, and possibly a noticeable advance on three or four varieties, there will be no justification for famine prices, and such prices are quite improbable.

In the West.

We are unable to chronicle any material changes in the crop situation of California, but the seed growers would like to be shown some way to successfully cope with the pea aphis or pea louse, which for two years past has been such a factor in destroying the sweet pea crop. Come forward, ye inventive geniuses, and fill a long felt want.

We have had one or two letters from a well known expert who has recently returned from an extended visit to the pea growing districts of Montana and Idaho. He says conditions generally are favorable as to appearances, but calls attention to the freeze of July last which he believes to have been very disastrous, especially in sections. He discourses on the purity of the seed stock, evidently having devoted considerable attention to this feature, and he warmly commends those of the Jerome B. Rice Seed Co., while he praises the types of several other growers but omits to mention any names. The recent rains have been of incalculable benefit to all crops excepting those practically matured and has not damaged them.

St. Louis, Mo.—The St. Louis Seed Company will move to larger quarters at 415 Washington avenue, November 1st.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

CHRISTMAS OR WINTER FLOWERING SWEET PEAS

	oz.	¼ lb.	lb.
Michell's Snowdrift, pure white, black seeded	$0.25	$0.75	$2.00
Christmas Pink, pink and white	.15	.50	1.50
Christmas White	.15	.50	1.50
Christmas Meteor, scarlet	.15	.50	1.50
Mrs. Alex Wallace, lavender	.15	.50	1.75
Mrs. Chas. H. Totty, lavender	.15	.50	1.50
Mrs. Edie Wilde, carmine red	.15	.50	1.50
Mrs. F. J. Dolansky, daybreak pink	$0.15	$0.50	$1.50
Mrs. Geo. Lewis, pure white	.15	.50	1.50
Mrs. Wm. Sim, salmon pink	.15	.50	1.75
Mrs. W. W. Smalley, satin pink	.15	.50	1.50
Le Marquis, dark blue	.15	.50	1.50
Watchung, pure white	.15	.50	1.50

Also many other varieties.

Our latest Wholesale Catalogue of Bulbs, Seeds and Florists' Supplies Just Out. Send for a Copy if you did not receive one

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

PANSY SEED

Specially Blended for Florists Use.

TRADE PKTS. $1.00.

Wm. Elliott & Sons

42 Vesey St., New York

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties

O. V. ZANGEN, Seedsman, Hoboken, N. J.

NEW WINTERFLOWERING
SWEET PEA LIST
has been mailed. If you have not received one, drop me postal.
ANT. C. ZVOLANEK
Greenhouses: BOUND BROOK, NEW JERSEY
Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice
On and after September 1, 1913 our address will be
98 Chambers St., N. Y.
Between Broadway and Church St.
BURNETT BROS.
Seedsmen
72 CORTLANDT ST., N. Y.

SEEDS
For Early Sowing
Price List for the Asking
The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

BULBS and HARDY PLANTS
Contracts made for Seed Growing
Send for price list
E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS
Send us your wants. We will take care of them. We supply stock at market price.
Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

FELIX & DYKHUIS.
HIGH GRADE BOSKOOP NURSERY-STOCK
BOSKOOP-HOLLAND.


FROM HOLLAND FAR, DUTCH LADY HANDS.
TO UNCLE SAM HER FINEST BRANDS.

FOTTLER-FISKE-RAWSON CO.
SEASONABLE
SEEDS
AND
Sundries
FOR THE FLORIST
BOSTON
FANEUIL HALL SQUARE

BRASLAN SEEDS
BRASLAN SEED GROWERS CO., Inc.
SAN JOSE, CALIFORNIA

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS
W. & D.'s AMERICAN SHOW
PANSIES
With Great Diversity of Color. ⅛ ounce $1.50
WEEBER & DON, Seed Merchants
114 Chambers St., New York

When writing to advertisers kindly mention HORTICULTURE.

PANSIES
THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all leading varieties of Giant Trimardeau. Write for Prices.

FREESIA

REFRACTA ALBA:	100	1000
⅜ to ½ in. diameter.....	$0.75	$5.00
½ to ¾ in. "	1.00	8.00
PURITY, first size.....	2.00	12.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference.....	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15...	$3.75	$35.00
NARCISSUS, Paper White Grandiflora, 13-15.....	1.25	8.00
LILIUM CANDIDUM, 20.....	5.00	40.00

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 15) NRW YORK, N. Y.

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. Keilhoh, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmondson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506 Long Dist. Bell Phone 2186
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Williamsport, Pa.—B. F. Gane.

Springfield, Mass.—C. S. Hopkins.

Brattleboro, Vt.—Carl S. Hopkins.

Fargo, N. D.—Smedley & Co., 69 Broadway.

Cedar Rapids, Ia.—J. G. Crozer, 209 S. Third street.

Chicago, Ill.—Harry J. Lister, 1008 Belmont avenue.

Madison, N. J.—Mrs. Ernest Wagner, King's Road.

Waterloo, Ia.—Charles Sherwood & Sons, 320 E. 4th street.

University Place, Neb.—G. H. Graham, 124 W. 24th street.

STEAMER DEPARTURES

Allan.

Canadian, Montreal-Liverpool.....Sept. 7
Virginian, Montreal-Liverpool.....Sept. 7
[illegible]
[illegible]
Pretorian, Boston-Glasgow.....Sept. 13

American.

New York, N. Y.-Southampton.....Sept. 13
St. Paul, N. Y.-Southampton.....Sept. 13

Atlantic Transport.

Minneapolis, N. Y.-London.....Sept. 13
Minnewaska, N. Y.-London.....Sept. 20

Cunard.

Mauretania, N. Y.-Liverpool..Sept. 10
Saxonia, N. Y.-Mediterranean.....Sept. 13
Laconia, Boston-Liverpool...Sept. 16

French Line.

[illegible]
[illegible]

Hamburg-American.

[illegible]
[illegible]
Cleveland, Boston-Hamburg..Sept. 12

Holland-America.

Ryndam, N. Y.-Rotterdam...Sept. 9
[illegible]

Leyland.

Canadian, Boston-Liverpool..Sept. 13
[illegible]

North German Lloyd.

Kronp. Cecile, N. Y.-Bremen.Sept. 9
[illegible]
[illegible]

Red Star.

Finland, N. Y.-Antwerp.....Sept. 13
Lapland, N. Y.-Antwerp.....Sept. 20

White Star.

[illegible]
Adriatic, N. Y.-Liverpool.....Sept. 11
[illegible]
[illegible]
[illegible]

Boston, Mass.—Jordan Marsh Company, flower and plant department.

Buffalo, N. Y.—Edward Slattery, Main, near Utica street; J. Benson Stafford, Chippewa street.

INCORPORATED.

Cleveland, O.—The Cleveland Plant and Flower Company, $10,000; H. D. Jones, A. B. Barber, G. H. Billman, R. C. Hyre and R. E. Dreyer.

New York, N. Y.—New York Florists' Supply Co., Inc., capital, $50,000. Incoporators, G. D. Nicholas, L. Mulinos, New York City; T. A. McKennell, Mount Vernon.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Denver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or telegraph
2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

P. McKENNA & SON
(Established 1851)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

CINCINNATI NOTES.

Robert McDonald, of Wm. Murphy's, has returned from a ten days' trip through Ohio and Indiana.

Thos. Windram has returned from his trip to the Pacific Coast, British Columbia and Cheneaux Islands.

The stockholders of The Hyde Park Rose Co. held the annual meeting of the company last Saturday. All reports showed the business to be in a substantial and prosperous condition.

Visitors: L. G. Barbier, Dunkirk, Ind.; Milton Alexander, New York; F. M. Harbison, Danville, Ky.

NEWS NOTES.

New Hampton, Ia.—A. A. Kutish has purchased the plant of the New Hampton Floral Co.

New Castle, Pa.—The firm name of W. D. Fischer & Sons has been changed to Fischer & McGrath.

Whitestone, N. Y.—Hinode Florist Co. have sold their plant-growing establishment here to Dreyer Bros.

Montreal, Can.—The Montreal Floral Exchange will move to larger quarters at 140 Mansfield St., October 1st.

Salem, O.—John Gunn & Son have purchased the retail store of V. A. Cowgill, proprietor of the Garfield Avenue Greenhouses.

RICE'S
RED RUSCUS
THE ONLY KIND TO BUY BECAUSE IT
IS GLYCERINE-PREPARED
DOES NOT MOLD
FINE XMAS RED COLOR
WEIGHS LIGHT
Per Lb. 65c.
Write Us For Quantity Price
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Clubs and Societies

GLADIOLUS SOCIETY OF OHIO.

The first annual flower show of this society was held at Cleveland, O., on August 15 and 16, 1913, and was considered a very gratifying success. The number of spikes of gladiolus on exhibition was estimated at 5000 and there were 72 competing entries for the various prizes. The list of the awards was as follows:

Society Awards. (Honorary.)

Display: C. Betscher, Canal Dover, O.; 2d, R. E. Huntington, Painesville, O. America: Joe Coleman, Lexington, O.; 2d, Bidwell & Fobes, Kinsman, O. Mrs. F. King: Joe Coleman; 2d, A. H. Austin Co., Wayland, O. Glory: Bidwell & Fobes; 2d, C. Betscher. Princeps: Joe Coleman; 2d, Bidwell & Fobes. Klondyke: Clark W. Brown, Ashland, Mass.; 2d, Munsell & Harvey, Ashtabula, O. Any white variety: "Europa," R. E. Huntington; 2d, Munsell & Harvey. Any red variety: Seedling, Munsell & Harvey; 2d, A. H. Austin Co. Any yellow variety: "Mongolian," Clark W. Brown; 2d, C. Betscher. Any blue variety: "Baron Hulot," R. E. Huntington; 2d, A. H. Austin Co.; Peace, R. E. Huntington; C. M. Kelway, R. E. Huntington; Ophir, Wilbur A. Christy, Warren, O.; Orient, same; Rose Queen, same; Delicatissima, same; Blanche, Bidwell & Fobes; Salmon, A. H. Austin Co.. Display for decorative effect, F. W. Griffin, Cleveland, O. Display in wreath, same.

Special Prizes.

Best Display by Amateur: Silver medal, J. H. Jones, Dowagiac, Mich.; bronze medal, Fred H. Ward, Cleveland, O. Coleman silver cup for best new seedling, "Bertrex," A. H. Austin Co. Alford prize, for best non-registered seedling, "Mrs. Watt," N. L. Crawford, Grafton, O. Crawford prize for largest number of varieties, Mapleshade Gladioli Farm, Warren, O. Thomann prize for best 25 spikes, any white variety, H. J. Alford, Garrettsville, O. Bidwell & Fobes prize for best vase Niagara, A. H. Austin Co. Bidwell & Fobes prize for best vase Panama, R. E. Huntington.

WILBUR A. CHRISTY,
Sec. and Treas.

FLORISTS' CLUB OF PHILADELPHIA.

The regular monthly meeting of the Club was held on the 2nd inst. Adolph Farenwald was the essayist, his subject being the recent S. A. F. convention at Minneapolis. Nomination for officers to be balloted for at the October meeting were in order. J. Otto Thilow, who has held the office of president for two terms, was nominated for a third. Adolph Farenwald was also nominated for this office, the only one for which there is rivalry. George Burton was nominated for vice-president. The present incumbents of the treasurer and secretary chairs—George Craig and David Rust—were renominated without opposition.

NEW YORK STATE FEDERATION OF FLORAL CLUBS.

The members of the State Federation of Floral Clubs are urgently requested to attend the annual meeting at Syracuse, at 2 P. M., Tuesday, September 9th, which is during the week of the State Fair. All florists are urged to be present. Important business will come before this meeting which will be of great interest to all florists in the state. The election of officers for the ensuing year, will also take place. There is to be an extensive exhibition of plants and flowers in Horticultural Hall, under the able supervision of Charles H. Vick, of Rochester. All exhibits which are sent to Mr. Vick, express charges prepaid, will be properly staged. Florists of the State, in addition to having a very pleasant day or two at the State Fair, will assist very much by their presence at the meeting of the State Federation.

JOHN YOUNG, Secretary.



NEW LONDON HORTICULTURAL SOCIETY.

The above society held its Summer or Aster Show, on the 28th inst. at the house of the Pequot Independent Hose Company. The show far surpassed all past exhibitions, both in point of excellence and the number of exhibits. The private estates from the Pequot section made a large display of plants, fruit and flowers. The judges were Ernest Robinson of the Plant estate, Eastern Point; M. H. Shea of the Osgood estate, Norwich, and S. A. Gilbert of Norwich.

H. LICKMAN.

CLUB AND SOCIETY NOTES.

The fall exhibition of the Newport Horticultural Society will be held at the Town Beach on September 16, 17, 18. Schedules for the same and any further information can be had by applying to the secretary, William Gray, Bellevue avenue, Newport, R. I.

The St. Louis Florist Club meets on Thursday, September 11th. This will be installation meeting and a valuable paper is promised by Adolph Jaenicke on "Gassing Against White Fly." Members who were at the S. A. F. convention will also tell us all about it.

The first meeting of the Horticultural Club of Boston for the season of 1913-14 was held at the Parker House, on Wednesday evening September 3. Secretary John Young of the S. A. F. was the guest of the evening. All the officers were re-elected for the coming year.

The Boston Co-operative Flower Market held their tenth annual sale of choice of stalls last Saturday, W. W. Tailby officiating as auctioneer. The institution is evidently prosperous for several more stalls were sold than last year and the premiums paid were nearly $800 in excess of last year's amount. The stall-holders say they are well satisfied with the Park street location.

HORTICULTURAL SOCIETY OF CHICAGO EXHIBITION.

The Summer Flower Exhibition of this society was held in the Art Institute, Aug 14 and 15.

It far surpassed previous efforts, though it is to be regretted that the private gardeners and amateurs did not make a better showing.

The W. W. Barnard Co., Chicago, had some magnificent vases of gladiolus America, also a fine collection of other stock notably some of the newer varieties of cannas.

Bidwell & Fobes, Kinsman, Ohio, had a fine collection of gladioli, notable among them being some extra fine Mrs. Francis King and Princeps.

A. E. Kunderd, Goshen, Ind., had a large collection showing many seedlings in the new ruffled gladiolus, his display occupying two long tables.

Vaughan's Seed Store had a large display of gladiolus, phlox and other perennials. G. Swansen, Elmhurst, had a fine collection of asters.

N. W. Harris, gard. Joseph Kruppa, had by far the best collection of perennials, annuals, etc., in the show.

C. O. Youngstrand, Golf, Ill., had a large exhibit of phlox, delphinium and other perennials.

Paul Dieball, Hubbard Woods, Ill., had quite a collection consisting of dahlias, asters, auratum lilies, gladiolus and perennials.

Winterson's Seed Store, Chicago, had a collection of hibiscus, which were a feature.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS We have one store only

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

MERIT RECOGNIZED

A First-Class Certificate of Merit and a Highly Commended Award

Were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class.

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

WALTER MOTT'S NOTES BY THE WAY.

St. Joseph, Mo.

W. C. Kennedy reports a good seed season, but with the terrible drought prevailing through the Missouri valley local crops are burnt up; even corn can hardly be utilized as ensilage.

Stuppy Floral Co. find their two ranges of glass cannot supply the increasing business and are looking for expansion. Frank Stuppy returned from the convention full of new ideas, although they are not so far behind, at that.

Kansas City, Mo.

There was a disappointed quartette here during convention week. They were Robert S. Brown, a pioneer in the business, one who changes not during the revolving course of nature, but who had a close call recently, and rejoiced the hearts of his confreres by complete recovery. He was too busy—a habit formed years ago and unchangeable. A. F. Barbe is building a handsome office and show house and was afraid the work would suffer by his absence. Arthur Newell was in the midst of overhauling his beautiful store which is one of the chief attractions, bordering on two of the leading streets. Samuel Murray candidly admitted that had his foresight been as good as his hindsight he would have surely been at Minneapolis. Realizing what pleasure and profit he missed he has already made arrangements for attending Boston, accompanied by Col. Sharp, his aid and grower for twenty-five years, and who produces the grand specimens of Ananassa sativa variegata and fancy-leaved caladiums embellishing the fine window of the city store. Miss Hayden had just returned from a month's vacation to her home in Verdant, Wis., in time to put the finishing touches on some immense floral pieces for the obsequies of a past grand Masonic master of the state. The jewel of office was a work of art. The numerous friends of Mr. Murray will be glad to know he has greatly improved in health of late. There is a reported scarcity of Dracaena Sanderiana for fall use.

Secretary Beneke, of the St. Louis Florist Club, informs us that the Mid-continental Flower Show which was to have been given by the Coliseum management is called off for this year owing to the withdrawal by the Florist Club Committee of their support.

CHICAGO NOTES.

The Lake County Agricultural Fair is being held at Libertyville, Ill., three days this week and is better than ever before.

Winterson's Seed Store received such an unfavorable report from its importer regarding the supply of immortelles this season that they immediately cabled their order to secure stock. Prices are said to be high.

All the French bulbs are now here, including Paper White narcissus, fuchias, Chinese lilies and Roman hyacinths which are said to be very scarce. Lilium candidum is expected this week; Harrissi and Formosum are now here. Dutch stock is due about the middle of the month.

The Luxemburgers, composed of market gardeners and florists of the North Side, held their tenth annual Schobremesse at Eberts Grove, Rogers Park, Sunday and Monday. The display of flowers, fruit and vegetables was very large and was viewed by 8000 people. The festival is pronounced the best ever held here.

A member of a large firm picking and shipping galax leaves recently told a Chicago wholesaler that the export orders are now growing so rapidly that almost his entire stock is sold abroad. At this time the supply of bronze leaves is very short and the price has advanced from $1.50 to $2.00 per 1000 in Chicago.

The Municipal Art Committee of the City Club is winning many victories in the fight it is putting up against the billboard nuisance, and many large boards have been ordered down on the main thoroughfares. The latest aid in the fight is the placing of nine inspectors who have a card index system of every billboard in the city and its history.

Personal.

Mrs. E. H. Horton started on September 2 for a Georgian Bay trip.

Miss Paradise, of A. L. Vaughan Co., is having a second vacation in Indiana.

A. F. Longren and C. Pruner have started on their fall trip in the interests of Poehlmann Bros., florists' supplies and plant department.

Mr. and Mrs. E. B. Washburn and little son are visiting relatives in Riverside and Hinsdale, Ill. Mr. Washburn has made his home in California for the past year and his health has been much benefited by the milder climate. They expect to remain about a month.

Traveling salesmen are always welcome in Chicago and last week brought an unusual number. Among them were noted Skidelsky, Karins, Knickman, Fotheringham and Fancourt. Other visitors were Mr. Wright of Wright's Flower Shop, Los Angeles, Calif., and J. W. Furrow, Guthrie, Okla.

OBITUARY.

Charles Akehurst.

Charles Akehurst, aged 85 years, died at his home in Baltimore, Md., on August 22d. He was formerly the head of the firm of C. Akehurst & Son, but retired several years ago. A widow and several children survive him.

Frank Zetter.

Frank Zetter, of Rochester, N. Y., died August 23, aged 61 years. He was in charge of P. R. Quinlan's greenhouses for over 25 years, and was familiarly known to nearly all the traveling men. He is survived by his wife.

John George Strodtbeck.

John George Strodtbeck, a retired florist, died Friday after a long illness at the home of his daughter, Mrs. Sophie Reitz, 745 Palmetto street, Brooklyn, N. Y. Mr. Strodtbeck was 71 years old and leaves his wife, a son and six daughters.

William Henry Maule.

Like a bolt from the blue sky comes the news of the sudden death in New York City of William Henry Maule, the well-known seedsman of Philadelphia, on Wednesday, September 3, while on his way home with his wife from an auto tour of the Berkshires. Mr. Maule came of a distinguished family and was reputed to be a millionaire. He was a most unique and original character and recognized the world over as one of America's greatest seedsmen. His age was 56 years. Death was due to apoplexy.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

ROSES

MARYLAND, PINK KILLARNEY, KAISERINE,
BULGARIA, HILLINGDON, SUNBURST.
In quantity—all sizes—$3.00—$8.00 per 100.

BEAUTIES
Good Flowers, $1.00—$3.00 per dozen.

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS
FOR FLORIST'S USE **R** THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI September 2			CHICAGO September 1			BUFFALO September 1			PITTSBURG September 2		
Am. Beauty, Fancy and Special	20.00	to	15.00	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	8.00	to	10.00	12.00	to	15.00	10.00	to	15.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	6.00	to	8.00	6.00	to	10.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	3.00	to	5.00	2.00	to	4.00
Killarney, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	6.00	to	8.00
" Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	7.00	6.00	to	8.00
" " " " Ordinary	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Carnations, Fancy Grade	.....	to	1.50	1.00	to	1.50	1.50	to	2.00	1.50	to	2.00
" Ordinary	.....	to	1.00	.50	to	1.00	1.00	to	1.50	.....	to	1.00
Cattleyas	.....	to	.....	.....	to	50.00	....	to	.....	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00	2.00	to	3.00
Asters	.50	to	2.00	1.00	to	4.00	.50	to	2.00	.75	to	3.00
Daises	.....	to	.50	.15	to	.25	.....	to	.....	.....	to	.....
Sweet Peas	...	to	.....	.25	to	.75	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	35.00	to	50.00	25.00	to	40.00	40.00	to	50.00

BUY
BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



GALVANIZED BUCKETS

FOR GROWERS AND RETAILERS
in any size to suit your requirements

These buckets are the most economical you can buy. They will outlast any other receptacles made. Do not rot—do not crack—can be easily washed out—with or without handles.

No.	Width	Depth	Doz.	100	No.	Width	Depth	Doz.	100
0	6 in.	5½ in.	$3.00	$20.00	5	7 in.	12 in.	$6.00	$40.00
1	7 in.	6½ in.	3.50	25.00	6	9 in.	14 in.	10.00	65.00
2	8 in.	7½ in.	4.00	30.00	7	10 in.	18 in.	15.00	105.00
3	10 in.	9½ in.	4.50	35.00	8	11 in.	21½ in.	18.00	130.00
4	6 in.	10 in.	4.00	30.00					

CEDAR BARK. Won't you want some for fall window box work. Buy it now we have a good stock and in ten bundle lots we will make the price 75c. per bundle. Larger bundles, $1.00 each.

HEADQUARTERS FOR GREENS

Wild Smilax, $6.00 per case.
Bronze Galax, $2.00 per 1000.
Green Galax, $1.00 per 1000; $7.50 per 10,000.
Green Leucothoe, new crop, $1.00 per 100; $7.50 per 1000.
Green Sheet Moss, $3.50 per bag. **Wild Smilax,** $6.00 per case.
Asparagus Strings, 50c. each.
Asparagus and Sprengeri Bunches, 50c. each.
Adiantum, $1.00 per 100.
Smilax, 20c. per string. **Cut Hemlock,** $2.50 per bundle.
Hardy Dagger Ferns, best quality, large fronds, $1.50 per 1000.
Sphagnum Moss, burlapped, 10 bbl. bales, each $3.75; 5 bale lots, each $3.50; 10 bale lots, $3.25 each.

RIBBONS AND SUPPLIES: many new patterns in exclusive Ribbons. **Our new illustrated catalogue of Ribbons and Supplies** will be ready in September. Let us have your name now, so we can mail you a copy.

Until September 15th, we will close at 5 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

P M QUALITY

Flower Market Reports

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON September 4			ST. LOUIS September 1			PHILA. September 2		
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.50	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	1.00	to	3.00
Richmond, Hillingdon, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
" " Ordinary	.50	to	2.00	2.00	to	3.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	6.00
" " " Ordinary	.50	to	2.00	3.00	to	4.00	1.00	to	3.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	.....	to	.....
" Ordinary	.25	to	.50	1.00	to	1.50	.75	to	1.00
Cattleyas	60.00	to	75.00	40.00	to	50.00	60.00	to	75.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	8.00	to	12.50
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	4.00	1.00	to	4.00
Asters	.35	to	2.00	1.00	to	2.00	.50	to	3.00
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.20	to	.50
Gardenias	8.00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

BOSTON A mild ripple of business is detected this week, but not sufficient to affect selling prices in the least. In fact, any attempt to "jack up" values to normal levels results in an immediate cessation of the demand. There is an unprecedented call for lily of the valley, but it cannot be pushed above the figures prevalent all summer. American Beauty roses are plentiful and are good enough to warrant a better price than it is possible to realize on them. Gladioli are a burden on all sides. The market is so overloaded that buyers are almost out of the possibilities and no price is refused by the dealers. Asters have been much injured by the recent rains and sweet peas have suffered from the same cause and are not worth picking. The demand for cattleyas is far in excess of the available supply just now.

BUFFALO The recent rains came just in time to save the late branching asters and also helped the gladioli along. Good stock has taken well and prices have been better than in previous years up to this time. Roses have been in good supply. Milady, Ward, and Kaiserin are good and Beauties have taken well. Lily of the valley and lilies are in demand. Trade has been good and the market well cleaned up except on gladioli of ordinary and mixed quality.

CHICAGO The last days of August added to the very fair record of the last summer months of the season. Shipping was especially good and Saturday and Sunday were both days in which good stock moved off rapidly, followed by Labor Day, when everything first-class cleaned up. With the coming of September a hot wave came also, and today (Sept. 2) business is confined mostly to shipping. The scarcest flowers in the market are white roses and lilies, which are included in practically all of the out-of-town orders. The flower too much in evidence is the gladiolus which sells for so much less than the bulbs cost that it is impossible to imagine anyone growing the poor, off-colored varieties year after year always with this same result. Even the three best varieties are nearly at a standstill this week. Young carnations now have stems from seven to twelve inches long and the blooms are of very fair size. Roses are apt to come a little open these hot days but plenty of good stock for the season is seen. Late asters are proportionately late with the early ones. Sales on these seem generally satisfactory. Smilax is very scarce and unusually high, while plenty of asparagus is to be had.

CINCINNATI The market has taken on a firmer tone during the past week and there is apparent a more active demand than we had a week ago. Shipping business is relatively better than local business. In roses excellent Beauties of all sizes are to be had. The supply of other roses, including Killarney, Ward, Taft, Maryland, Ivory and Richmond, is fully adequate. The choice grades meet with the readiest sale. Good asters are now available in quantity and have been meeting with a very good market. Lilies are in good supply and clean up tolerably well. The very limited quantity of lily of the valley that comes in is selling nicely. Gladioli are still in a heavy supply and some excellent dahlias have made their appearance. Greens are, with the exception of smilax, in a more than sufficient supply.

(Continued on page 351)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 / 609 MADISON SQ., NEW YORK

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 / 5893 Mad Sq 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000 ...$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use
BOOKS BALANCED AND ADJUSTED
Merchants' Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 53

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 709 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 23 1913			First Half of Week beginning Aug. 25 1913		
Cattleyas	30.00	to	60.00	30.00	to	60.00
Lilies, Longiflorum	3.00	to	5.00	4.00	to	5.00
Lily of the Valley	1.00	to	3.00	1.00	to	2.50
Gladioli	.50	to	1.50	.50	to	1.50
Asters	.15	to	1.50	.15	to	2.00
Daises	.....	to	.50	.....	to	.50
Snapdragon	1.00	to	2.00	1.00	to	2.00
Sweet Peas (per 100 bunches)	1.00	to	2.00	1.00	to	2.00
Gardenias	5.00	to	8.00	5.00	to	8.00
Adiantum	.50	to	1.00	.50	to	1.00
Smilax	6.00	to	12.00	10.00	to	15.00
Asparagus Plumosus, strings (per 100)	35.00	to	40.00	35.00	to	40.00
" " & Spren (100 bunches)	10.00	to	20.00	10.00	to	20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones, 708 and 709 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. and Treas. MAURICE L. GLASS, Manager
CHAS. E. ROBINSON, Vice-Pres. and Sec'y WHOLESALE FLORISTS
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special attention to Shipping Trade

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Prepared MAGNOLIA Leaves
Red, Bronze and Green, Finest in the Country
Try a Sample Order and be Convinced
$1.25 PER CARTON
N. F. McCARTHY & CO., 112 Arch Street and 31 Otis Street, BOSTON, MASS.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 349)

NEW YORK There is not much thus far to indicate the near approach of the fall season with its appropriate activity in flower buying. So long as desirable weather conditions continue the public have but little interest in store flowers and so there is no likelihood of any noticeable revival just yet. In the meantime growers are perfecting their stock and a steady improvement in quality of roses, carnations and other standard material is in evidence. Asters dominate the situation at present. They are everywhere in enormous quantities and many of them are very fine. Those that are not are a difficult proposition and the prices realized are unquotable. Gladioli are now waning and sweet peas are no longer a factor. Cattleyas, oncidiums, Odontoglossum grande and Dendrobium formosum giganteum are the principal components of the orchid stock. Dahlias are beginning to come in quite heavily.

ST. LOUIS The market has been in a bad way during the past week, not much doing and the weather very hot. The growers are praying for rain as the field stock is burning up. Most of the retailers say the last week was one of the dullest of the month. The market is made up at present of roses, asters, carnations, lily of the valley, tuberoses and a lot of poor outdoor truck.

A BALTIMORE DEAL.

Charles E. Meehan, vice-president of the S. S. Penock--Meehan Co., who has just returned from Baltimore, announces the purchase by his corporation of the Baltimore Florists' Exchange, the co-operative flower market of that city, a successful organization whose original five-dollar shares have recently been sold at three hundred. The consideration is not stated, but it was in cash and must have been high to have tempted over 90 per cent of the shareholders to sell out of a highly lucrative proposition. The concern will be run as one of The Wholesale Florists of Philadelphia's chain of establishments, supplementing those already established in Philadelphia, New York and Washington and putting Baltimore in touch with the most up-to-date metropolitan markets and method of wholesaling cut flowers.

GEORGE C. WATSON

Malcolm Lamond has been appointed head gardener for the city of Oakland, Cal.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Aug. 30 1913			First Half of Week beginning Sept. 1 1913		
American Beauty,	Fancy and Special	10.00	to	15.00	10.00	to	15.00
" "	Extra	6.00	to	8.00	5.00	to	8.00
" "	No. 1	4.00	to	5.00	3.00	to	5.00
" "	Lower Grades	.50	to	2.00	.50	to	2.00
Killarney,	Extra	2.00	to	3.00	2.00	to	3.00
"	Ordinary	.25	to	1.00	.25	to	1.00
Richmond, Hillingdon,	Extra	2.00	to	3.00	2.00	to	3.00
" "	Ordinary	.25	to	1.00	.75	to	1.00
Maryland, Ward, Taft, Carnot,	Extra	4.00	to	6.00	4.00	to	6.00
" " " "	Ordinary	.50	to	2.00	.50	to	2.00
Carnations,	Fancy Grade	.75	to	1.00	.75	to	1.00
"	Ordinary	.50	to	.75	.50	to	.75

PERSONAL.

Fred E. Palmer of Brookline, Mass., is the Progressive candidate for senator in his district.

Carl S. Knopf and Miss Florence Nelson, both of Los Angeles, Cal., were married August 20th.

Oscar Prager, horticultural expert for the city of Oakland, Cal., has returned from a three months' trip to Europe.

William J. Patterson of Wollaston, and Miss Westwood, will be married at the home of the bride, Jamaica Plain, Mass., on Sept. 12th.

Harry A. Barnard, representing Stuart Low & Co., has arrived in New York on his annual American tour. His address is Hotel Albert.

Paul A. Rigo, head salesman for Henshaw & Fenrich, and Ethel C. Wilson, both of New York city, were married on Wednesday, Sept. 3d.

Boston visitors: John Young, Secretary S. A. F., New York; Jos. Fuller, Leominster, Mass.; A. E. Thatcher, Bar Harbor, Me.; Edw. Kirk, Bar Harbor, Me.

H. C. Irish, of the landscape firm of Muskop & Irish, St. Louis, has gone to Ames, Iowa, where he will stay for the next six months to teach a class in landscape gardening at the Iowa Agricultural College.

Theodore Wirth, of Minneapolis, president-elect of the S. A. F., is in the hospital with a broken leg and other injuries caused by being struck and run over by an automobile. HORTICULTURE extends deep sympathy and wishes for a speedy recovery.

Joseph Kelley, landscape gardener for Messrs. Wallace at Colchester, England, who has been visiting in this country for the past month, sailed for home, September 2, on the Franconia, from Boston. Mr. Kelley had been ill for some days previous to sailing and was unable to fully carry out his plans.

Jackson Dawson, of The Arnold Arboretum, personally beloved and professionally recognized as an exponent of practical horticulture without a peer, was elected president of the Association of the Nineteenth Regiment, Massachusetts Volunteer Infantry, Civil War Veterans, at Fall River, Mass., on August 28. No high honor was ever more worthily bestowed.

DURING RECESS.

Chicago Florists' Club.

The Chicago Florists' Club had an ideal day for its annual picnic, which was held on August 31 in Ehrhart's Grove. A little lower temperature would have been acceptable, but the heat did not mar the pleasures of the day and the program of events, as arranged by the sports committee, F. Potacka, E. Ollinger and E. F. Winterson, Jr., was carried out and enjoyed by all. The final event, around which the greatest interest centered, was the ball game played between the Wholesalers and the Retailers, commanded by E. F. Winterson, Jr., and E. Ollinger respectively, and was a victory for the Retailers. Among the other contests Mrs. T. Waters won the honors by distancing all others in the married ladies' race, while Frank Potocka proved that he could run a little faster than the other fat men. A fine photograph of the company was secured but too late for use in this issue.

IN BANKRUPTCY.

William Hagemann & Co., 30 Church street, New York City, made an assignment on August 27 to Theo. M. Crisp. Paul Kase, president of the corporation committed suicide on August 19, as recorded in a recent issue of HORTICULTURE. The company was incorporated on April 30, 1909, with capital stock of $50,000, and a financial statement in December, 1911, showed assets of $119,000 and liabilities of $47,318.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

Asparagus plumosus seedlings, $1.00 per 100; $6.00 per 1000; $50.00 per 10,000. COLLINGDALE GREENHOUSES, Collingdale, Pa.

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BULBS AND TUBERS

Arthur T. Boddington, New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

R. & J. Farquhar Co., Boston, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
Lilium Harrisii and Amaryllis Bulbs.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Lakeview Rose Gardens, Jamestown, N. Y.
Field Grown Carnation Plants

CARNATIONS FROM FIELD. 500 Queen; 700 Winsor; 300 Perfection; 200 Penn; 100 Lawson, $6.00 per 100. Cash. CHARLES H. GREEN, Spencer, Mass.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Ferns in Flats.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

For List of Advertisers See Page 331

FERTILIZERS—Continued.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GALVANIZED BUCKETS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

King Construction Co., No. Tonawanda, N. Y.
Bargains in Glass.

GLASS—Continued

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

William H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
Lord & Burnham Co., 1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America. J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Benjamin Hammond, Beacon, N. Y.
Slug Shot
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Edward W. Breed, 94 Prescott St., Clinton, Mass.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

Manual of the Trees of North America, by C. S. Sargent, mailed to your address for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Eng. Middlesex.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER. Canal Dover, O.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

ROSES—Continued

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Pansy Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Pansy Seed.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Christmas Flowering Sweet Pea and Mignonette Seed.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
New Zealand Spencer Sweet Pea Seed.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

For List of Advertisers See Page 331

SEEDS—Continued

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

PHOENIX ROEBELENII.
We expect from our collector a fresh ha-vest. Price on application.
SANDER, BRUGES, BELGIUM,
and 258 Broadway, New York, N. Y.

Ginseng Seeds—Fine lot of stratified seeds, ready for planting, $6.00 per lb.; less than a lb., $8.00. Cash. C. K. WHITE, Randolph, Vt.

SLUG SHOT

B. Hammond, Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

COLEUS CECIL BROWN.
R. Vincent, Jr. & Sons, White Marsh, Md.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Fred C. Weber,
4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

GIANT CYCLAMEN SEED.
Henry F. Michell Co.,
518 Market St., Philadelphia, Pa.
For page see List of Advertisers.

HAMMOND'S GRAPE DUST.
Hammond's Paint and Slug Shot Works,
Fishkill-on-Hudson, N. Y.
For page see List of Advertisers.

KING IDEAL BOILERS.
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

RED RUSCUS.
M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

RUBBER PLANTS.
F. Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

"TIP-TOP" BRAND TOBACCO POWDER.
Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
For page see List of Advertisers.

U-GET-A SQUARE DEAL.
W. B. Whittier & Co., Framingham, Mass.
For page see List of Advertisers.

DO YOU KNOW WHAT YOU WANT?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, mixes and dissolves. Ask your Supply House for Wizard Brand or write us direct

31 Union Stock Yards, Chicago

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Nine per cent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



"HAMMOND'S GRAPE DUST"

Used effectively to kill Mildews on Roses and other Plants . . .

Sold by the Seed Dealers.
For pamphlet on Bugs and Blights address

HAMMOND'S PAINT & SLUG SHOT WORKS
BEACON, N. Y. (Fishkill-on-Hudson, N. Y.)

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP"

BRAND

Tobacco Powder

For fumigating or dusting. $3.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Factory open for inspection. Write for prices

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

(NO ODOR) INSECTICIDE NO POISON

Guaranteed under the Insecticide Act. 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FORESTRY TOPICS.

Addresses by forestry experts at the State House, a demonstration of methods of attack on the leopard moths on Boston Common, by J. W. Chapman, city entomologist, and a trip to the estate of Gen. Stephen M. Weld at Dedham, where scientific forestry management is practiced, were included in the program of the recently-organized Massachusetts Tree Warden's and Foresters' Association, at their meeting in Boston, August 21. Prof. George E. Stone of Massachusetts Agricultural College presided at the morning meeting. Gov. Foss spoke of his personal interest in forestry. State Forester Frank W. Rane discussed "Moths and Forestry Practices," Asst. State Forester H. O. Cook spoke on "Forestry Management."

R. G. Pierce, employed by the Federal Government and the state to study the chestnut blight in Massachusetts, pointed out that the fungus which is destroying chestnut trees was first found in New York in 1904, and on August 21, 1913, it had been reported from 178 towns in Massachusetts. Mr. Pierce said the disease is so widespread that it cannot be stopped, but the blight can be checked and the life of chestnut woods prolonged.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED A first-class rose grower to take charge of new rose department. Two 40x300 ft. houses. Must be married and well recommended. Good pay and steady position for the right party. Apply to W. E. LENK, Supt. Halifax Garden Co., Halifax, Mass.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

SITUATIONS WANTED

POSITION WANTED As head gardener. Experienced in out-door work, also under glass. Can furnish satisfactory references as to ability and character. "S. T.," care HORTICULTURE.

FOR SALE

A RARE OPPORTUNITY.

Owing to death of owner and desire of family to close out estate, a desirable farm, nursery and greenhouse property, 25 miles from Boston, is offered for immediate sale on easy terms. Sixty acres of land, including 12 acres nursery stock and 15 acres of growing crops, peach and apple orchards loaded with fruit. New greenhouse planted to carnations; 12 room dwelling with steam heat and electric lighting; outbuildings, wagons, horses, cattle, poultry, etc. Address "N. M.," care

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x 24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Sharon, Mass., 17 acres, cottage house, shed, barn, two greenhouses. Cheap for cash. Full particulars. E. G. BLANEY, Swampscott, Mass.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

PLANT QUARANTINE DECISION NO. 4.

The Federal Horticultural Board recommends that regulation 7 of the rules and regulations for carrying out the Plant Quarantine Act (37 Stat., 315), as amended March 4, 1913, published in circular No. 44, office of the secretary, issued May 26, 1913, be amended, to take effect as amended on and after August 1, 1913, so as to read as follows:

Each certificate and copy certificate shall give the date of inspection; name of the grower or exporter; the district or locality and the country where grown; a statement that the stock has been inspected by a duly authorized official and found, or believed to be, free from insect pests and plant diseases. The original certificate shall be signed and sealed by, and the copy certificate shall bear the seal of, the responsible inspection official for the country of origin.

Permits may be canceled and further permits refused for the importation of nursery stock from any given country whenever such stock, in the judgment of the Federal Horticultural Board, is found to be so infested as to plainly indicate that the foreign inspection is merely perfunctory, and such countries shall thereafter be classed as countries which do not maintain nursery stock inspection until satisfactory evidence is presented to show that the regulations of the board have been complied with.

Lists of officials in foreign countries authorized to inspect nursery stock, giving their names and official designations, will be furnished to collectors of customs through the secretary of the treasury.

C. L. MARLATT, Chairman,
W. A. ORTON,
GEO. B. SUDWORTH,
W. D. HUNTER,
A. V. STUBENRAUCH,
Federal Horticultural Board.

PUBLICATIONS RECEIVED.

The annual report of the Public Parks Board of Winnipeg, Canada, for 1912 is an attractive volume of 96 pages. Superintendent Champion gives interesting details of the work of the year, which show that a high standard of park maintenance is being followed.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4 in.	@ $4.50
1500	2	"	"	4.88	456	4½ "	" 5.24
1500	2¼	"	"	5.25	320	5 "	" 4.51
1500	2½	"	"	6.00	210	5½ "	" 3.78
1000	3	"	"	5.00	144	6 "	" 3.16
800	3½	"	"	5.80	120	7 "	" 4.20
					60	8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

GREENHOUSES BUILDING OR CONTEMPLATED.

St. Helen, Mich.—Louis Hayet, house 20x75.

Marseilles, Ill.—Henry Dumke, one house.

Elgin, Ill.—Albert Cornish, one house.

Salina, Kan.—A. B. Walter, house 25x100.

Overlea, Md.—W. F. Keys, three houses.

Vinita, Okla.—R. E. Moss, Moninger house 26x100.

New Ulm, Minn.—Christ Boock, house 20x100.

Plainview, Tex.—Plainview Floral Co., house 30x100.

Butte, Mont.—Englewood Floral Co., one house 30x150.

Onarga, Ill.—C. Gould, Westfall farm, range of houses.

Chesaning, Mich.—E. Hayes Adams, Brady St., house 20x50.

Rehoboth, Mass.—Albert E. Brownell. violet house 16x100.

Warren, O.—Adgate & Son, four houses 27x200, one house 28x100.

Middle Village, N. Y.—Jos. Klingenbeck, Furman avenue, house 60 x 200.

Terre Haute, Ind.—Heinl & Weber, house 25 x 100; Terre Haute Rose & Carnation Co., addition 27 x 150.

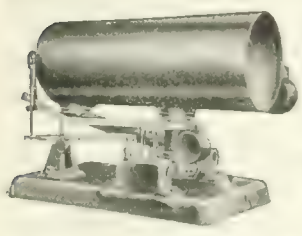
PATENTS GRANTED.

1,070,766. Garden tool or cultivator. Robert Braun, La Crosse, Wis.

1,070,868. Lawn rake. Albert P. Worthington, Los Angeles, Cal.

Woburn, Mass.—Arthur Griffin has sold out his business and greenhouse property to C. B. Johnson.



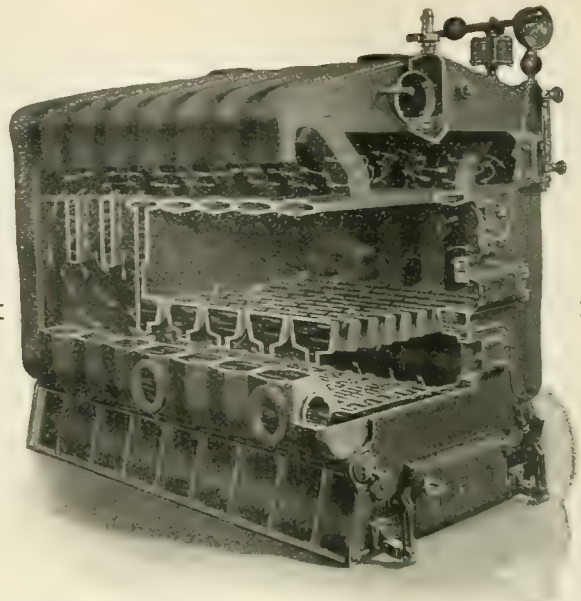


CONSULT US-ON-THE HEATING

ROB'T ROSS-JONES HARRISBURG, PENNA.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N. J.**

The King "Ideal"



Burns Soft Coal

"King Ideal" Boiler
FOR
GREENHOUSES

A square Sectional Cast Iron Boiler designed especially for burning soft coal, so that it is

SMOKELESS

The King Ideal is a very practical heater which costs a trifle more than the old style rocking grate hard coal boiler but it

Saves 1-3 of the Season's Fuel Bill

Write for Bulletin No. 41 and find out why the King Ideal Boiler like a King Greenhouse is the most profitable investment you can make.

KING CONSTRUCTION CO.

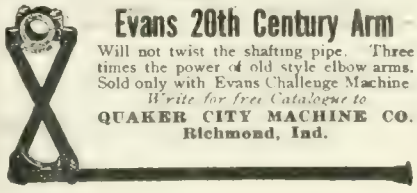
28 King's Road. NORTH TONAWANDA, N. Y.

"ALL THE SUNLIGHT ALL DAY HOUSES."

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

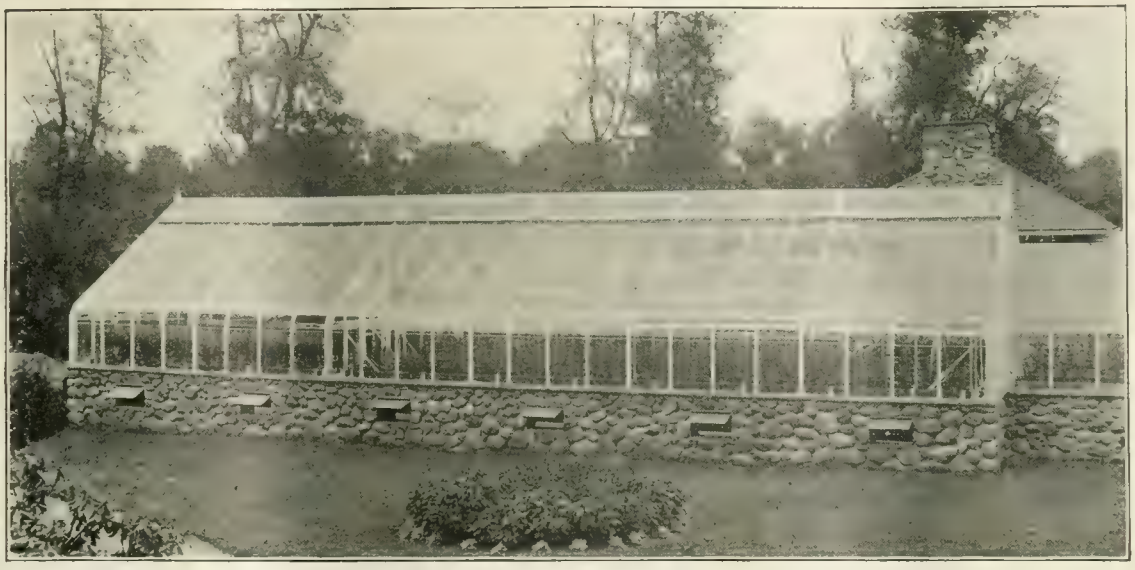
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Erected at Chappaqua, New York

When you talk of bubbles of light, etc., there is nothing to compare with the **LUTTON HOUSE** both as to durability and cost of maintenance. Our frame is entirely galvanized, even the nails, screws and bolts. On completion the house is treated with aluminum, producing a bright, shimmering finish so conducive to good growing results. No necessity for the expensive cost of repainting every two years to keep your house in presentable condition. The **LUTTON** reputation has been established on such facts as these. Our method is patented and if you don't get the **LUTTON HOUSE** you are not receiving honest returns on your investment. Our figures may be a little higher than others as our work costs more, but taking everything into consideration, it pays to do good work. We are ready for you at any time.

WILLIAM H. LUTTON, - JERSEY CITY, N. J.

What the Users Say

THE KROESCHELL GREEN HOUSE BOILER



BEST OF ALL FOR HOT WATER HEATING

Kroeschell Replaces Cast Iron

Your No. 12 Kroeschell Boiler which I purchased last fall is heating 38,000 sq. ft. of glass. I have no trouble in the least to keep 60 to 70 degrees in the greenhouses in the coldest weather.

Your boiler is doing the work for which I formerly used **three cast iron sectional boilers**, but I would recommend the **Kroeschell** to anyone wanting to heat their greenhouses with the least trouble.

Lexington, Ky., June 27, 1913. (Signed) FANNIE D. WHITE.

KROESCHELL BROS. CO., 470 W. ERIE STREET CHICAGO, ILL.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

METROPOLITAN MATERIAL CO.

PATENTED

Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.

BROOKLYN, N. Y.



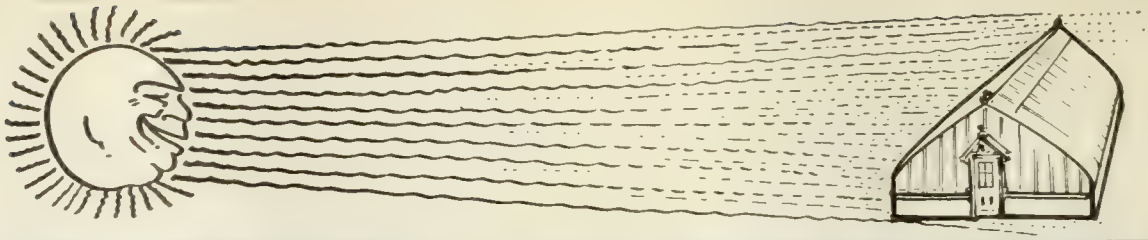
You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.

In writing to Advertisers kindly mention Horticulture



The First Rays Make Most Growth

THE fact that in the first few hours of the morning, plants make more growth and better growth than in all the rest of the day, is a very vital point to have in mind when deciding on buying a greenhouse.

The lighter the construction of your greenhouse is, the quicker and stronger will be the growth. The greater will be the returns on your investment.

U-Bar Greenhouses have a complete galvanized aluminum painted steel frame, that makes them not only the lightest houses built, but rigid, enduring, and low in up-keep costs.

The first rays and the last rays of light count with U-Bar houses because their extreme lightness permits the greatest amount of light to reach the plants.

Graceful and attractive as the U-Bar construction is, its efficiency is after all, the thing.

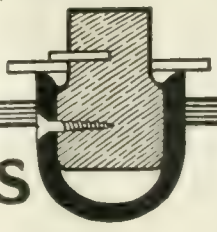
They cost more but they are worth more, because results are more and cost of maintenance less.

We tell you these facts as a matter of protection.

Send for catalog or send for us—or both.



ERECTED FOR W. R. HARRIS, IRVINGTON, N. Y.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. SEPTEMBER 13, 1913 No. 11



Specimen Vanda Sanderiana

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

Published Every Saturday at 11 Hamilton Place, Boston, Mass.

Subscription, $1.00



Mignonette

Boddington's Majesty

THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.

Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.

Arthur T. Boddington
SEEDSMAN
342 West 14th St., New York

HEADQUARTERS IN EUROPE FOR FRUIT TREES

FOR FIELD, GARDEN OR ORCHARD HOUSE

FRUIT TREES in all shapes, GRAPE VINES in pots,
ORCHARD HOUSE FRUIT TREES in pots,
FIG TREES in pots (finest procurable.)

During September and early October, our Mr. H. A. Barnard will be in the United States. Address, Hotel Albert, University Place, New York City.

He will be glad to hear from anyone interested.

STUART LOW & CO.,

Royal Nurseries, Bush Hill Park, ENFIELD, MIDDLESEX, ENGLAND.

B. & A. SPECIALTIES

Our World's Choicest Nursery and Greenhouse Products for Florists

PALMS, BAY TREES, BOXWOOD AND HARDY HERBACEOUS PLANTS, EVERGREENS, ROSES, RHODODENDRONS, VINES AND CLIMBERS, AUTUMN BULBS AND ROOTS, CONIFERS, PINES

Florists are always welcome visitors to our Nurseries. We are only a few minutes from New York City; Carlton Hill Station is the second stop on Main Line of Erie Railroad.

BOBBINK & ATKINS

Nurserymen and Florists **Rutherford, N. J.**

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ...

Immediate Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

When writing to advertisers kindly mention HORTICULTURE.

BALTIMORE NURSERIES

California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

GEO. J. PEARSON, Pres. & Treas. WM. J. ZARTMANN, V Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

MARYLAND

We will be ready to disseminate our new Bright Scarlet Semi-double Geranium "Maryland," January 1, 1914. 50 cents each; $5.00 per dozen

READY FOR IMMEDIATE SHIPMENT

	Per 100 2 in.	3 in.
DOUBLE PETUNIAS, mixed colors	$2.00	$3.00
COLEUS BRILLIANCY, for Christmas	3.00	4.00
COLEUS CECIL BROWN, the Weeping Coleus	3.00	4.00
BEGONIA VERNON, white and pink	2.00	3.00
HARDY ENGLISH IVY, strong stock	2.00	3.00

	Per 100 2 in.	3 in.
SMILAX, good strong stock	2.00	
GERANIUMS, standard varieties	2.00	3.00
ASPARAGUS SPRENGERII		5.00
FUCHSIAS, a collection of 100 varieties, one each		10.00

$18.50 per 1000 for those quoted at $2 per 100 $25 per 1000 for those quoted at $3 per 100

R. VINCENT, JR. & SONS CO. . . . White Marsh, Maryland

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. 2890 Bedford **BROOKLYN, N. Y.**

LIST OF ADVERTISERS

Advance Co.....391
Albany Cut Flower Ex.....382
Allen, J. K.....382
Am. Importing Co. 379
Anderson, S. A..377
Aphine Mfg. Co.388
Aschmann, G....371
Atlanta Florist Co. 380
Ayres Co., S. Bryson 375
Badgley, Reidel & Meyer.....382
Balsley, Harry..389
Barnard, W. W. Co. 375
Barrows & Son.364
Bayersdorfer, H. & Co.....379
Bay State Nurseries 363
Bloomingdale's .376
Bobbink & Atkins 362
Boddington, A. T.362
Bolgiano & Son, J. 375
Boston Florist Letter Co.....380
Breck, J. & Son.375
Breck-Robinson Nurseries 362
Breitmeyer's, J. Sons 376
Bryan, Alonzo J.371
Burnett Bros....375
Burpee, W. A. & Co. 375
California Florist 377
California Seed Growers' Asso.375
Carbone 377
Chicago Carnation Co.....380
Childs, John Lewis 364
Clarke's D. Sons 376
Clark, Everett B. Seed Co.....375
Conine, F. E. Nursery Co....371
Cooke, Geo. H...378
Cowee, W. J.....382
Craig, Robt. Co.371
Dards 376
Dawson, H. S...363
Detroit Flower Pot Co.....389
Dorner & Sons Co. 364
Dreer, H. A..... 373-389-390
Dunlop, John H.377
Dysart, R. J....382
Eastern Nurseries 363
Edwards Folding Box Co.....380
Elliott's, W. M. Sons 375
Eppstein, Julius.377
Ernest, W. H....389
Esler, J. G.....391
Eyres ..... .376
Fairfield Landscape & Nurseries Co.....362
Farquhar, R. & J. & Co.....371
Ford, W. P.....382
Forrest, Frank H. 377
Fottler, Fiske, Rawson Co....375
Framingham Nurseries 362
Franklin Davis Nursery Co....362
Froment, H. E..382
Galvin, Thos. F..377
Gasser, J. M. Co.377
Goodsell, P. H..362
Grey, T. J. Co..375
Gude Bros. Co...376
Hail Association.391
Hall & Robinson.377
Hammond Paint and Slug Shot Works 388
Hart, Geo. B.....383
Heacock, Jos.....371
Heinecken, Otto..375
Henderson, A....371
Hess & Swoboda.376
Hews, A. H. & Co. 389
Hill, E. G. Co...383
Hitchings & Co.390
Holland Nurseries 364
Hilfinger Bros...389
Holm & Olson...376
Hudson Carbon Co. 388
Interstate Tobacco Co.....388
Jacobs, S. & Sons 391
Johnson, J. Oliver 374
Johnston Bros...377
Jones, Robert Ross 391
Kasting, W. F. Co. 383
Keller, J. B. Sons 376
Kelway & Son...375
Kervan Co.....382
King Construction Co.....390
Kramer, F. H...377
Kroeschell Bros.391
Kuebler, W. H..382
Lager & Hurrell.371
Lakeview Rose Gardens 371
Lange, A.....377
Lemon Oil Co...388
Leonard Seed Co.374
Leuthy, A. & Co.364
Loechner & Co..371
Lord & Burnham Co. 392
Low, Stuart & Co. 362
Lutton, W. H...391
MacMulkin, E...378
May & Co., L. L.377
McConnell, Alex..376
McCarthy, N. F. Co. 380-383
McCray Refrigerator Co.....379
McHutchison & Co. 364
McKenna & Sons, P. 377
McKenzie, John..363
McManus, Jas....382
Michell's Seed House 374
Michigan Cut Flower Ex.....380
Millang, Chas....382
Miller, E. S.....375
Montreal Floral Exchange 382
Moore, Hentz & Nash 382
Murray, Samuel.376
Niessen, Leo Co.380
National Nurseryman 371
N. Y. Stable Manure Co.....388
Oechslin, Frank.371
Ouwerkerk, P...364
Park Floral Co..376
Palmer, W. J. & Son 376
Parshelsky Bros.390
Pelicano, Rossi & Co. 377
Penn. the Florist.377
Pennock-Meehan Co. 381
Pierce Co., F. O.390
Pierson, A. N...364
Pierson, F. R. Co.363
Plant Food Co., 20th Century..388
Poehlmann Bros. Co. 380
Pollworth, C. C.376
Pulverized Manure Co.....388
Quaker City Machine Co.....391
Reed & Kelleer..382
Reinberg, Peter.380
Rice, M. Co.....377
Robinson Co., H. M. 382
Roehrs, J. Co...371
Roland, Thomas.364
Rolker, A. & Sons 364-389
Rosery, The.....376
Sander & Son..371
Scott, John.....363
Schling, Max....377
Schultheis, Anton 371
Sheridan, W. F.382
Sharp, Partridge & Co.....390
Siebrecht, Geo. C.382
Siggers & Siggers 391
Skidelsky, S. S. & Co.....375
Smith, P. J.....382
Smith & Co., E. D. 362
Smith, W. & T. Co. 364
Smyth, Wm. J..376
Sprague, J. H...371
Stearns, A. T. Lumber Co....391
Syracuse Pottery Co. 389
Totty, Chas. H..364
Thorburn, J. M. & Co.....375
Traendly & Schenck 382
Valentine, J. A..376
Van Assche, F...391
Vincent, R., Jr., & Sons Co.....363
Wants, For Sale.389
Ward, R. M. & Co. 364
Weber, F. C.....378
Weeber & Don...375
Welch Bros.....380
Whittier & Co., W. B.....362
Wilson, Robt. G.376
Wood Bros.....364
Woodrow & Marketos 382
Young, John....383
Young & Nugent.376
Zangen, O. V....374
Zinn, J. A.....377
Zvolanek, Ant. C.375

For Buyers' Directory and Ready Reference Guide

See Pages 384, 385, 386, 387

THE REASON WHY

The fact that we sell many more lily bulbs to florists than any other firm in the World is of little consequence. But the reason why this is so, is important. It is because the bulbs have given better satisfaction on the average than any other brand known. There are no better lily bulbs grown anywhere in the World than Horseshoe Brand Giganteum—due here very soon. Now is the time to order if you have not done so before. Prices as follows:

Size 6-8 $16 per case of 400 **Size 7-9 $18 per case of 300**
Size 9-10 $22 per case of 200

Inquire for prices on large Quantities

NOT HOW CHEAP
BUT HOW GOOD

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

CHARLES H. TOTTY

CARNATIONS AND CHRYSANTHEMUMS

MADISON, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBR NEW BOTAN GARD

Get Your Compost Supply

Any time within the next six weeks is a good time to lay up compost for next season's use. Select some loamy pasture and cut the sod about four or five inches deep. This can be built up into square piles five feet or more high, placing a layer of well rotted cow manure between each layer of sod. There should be at least one-third of manure to two-thirds of sod. Before hard frosty weather sets in it should be chopped down and turned over, to hasten decomposition. With the winter's frost and snow this compost will be in a fine mechanical condition by next spring. Plenty of sod is the foundation for success in all horticultural operations under the glass.

Lifting Shrubs for Forcing

These should be lifted now as greater success will follow potting up now than a month later. Shrubs potted now will have several weeks in which to form fresh root fibres before the winter comes. Use pots or tubs that will just hold them conveniently. Give them a good, strong compost, say to three of fibrous loam use one of manure and give each pot plenty of drainage. Work the compost well in and around the roots. Set them where they can have shade for four or five days; but after that they should be given a place where they can have full sunshine. Extra care will have to be exercised in watering as some will dry out more quickly than others. When the weather becomes cold in November they can be placed where their pots will not break, but keep as cool as possible.

Making Outside Lily Beds

Those who intend to make up new beds or replant old ones can plant any time now and up to November. The best way to make a lily bed is to first throw out the soil to the depth of about 15 inches, and on the bottom place a 5 or 6-inch layer of sand and leaf mold to insure perfect drainage. Fill in on this loam any old manure mixed at the rate of two-thirds loam to one-third of manure. This can be filled within about six inches of the top of the bed. On this set the bulbs, leaving twelve inches between each bulb and cover with about an inch of sand all over, finishing with loam up to the top of the bed. When the ground has formed a frozen crust of about half an inch, spread four or five inches of forest leaves all over the bed and when the weather becomes colder, place about four inches of horse manure over the leaves. This protection will keep them in good order through the winter.

Nephrolepis

Ferns of the original Boston type, as also some of the newer forms, that were planted into benches last spring, have done very well and are now a mass of erect, sturdy frondage. It is now time to work this up into salable form, if not already taken in hand. It is only when afforded sufficient time, after being made up into specimen plants in the transfer from bench to pot that these ferns become the best of marketable decorative stock. A good compost is three parts fibrous loam, two of leaf mold and one of well-rotted and sifted cow manure. See that the pots are well cleaned and have good drainage. One of the surest ways to kill a fern is to let it wilt from being too dry at the roots. Another way but a trifle slower in its workings is to keep it in a soaked and soggy condition for any length of time. This suggests the exercise of watchfulness in the watering of ferns of all kinds, but Boston in particular during periods of abnormal weather conditions wants care in this line.

Transplanting Large Palms

When very large plants must be transplanted the work is usually put off until September, this being considered the best time for all such operations. However, one should not wait until the roots assisted by the decaying wood have fairly consumed the tubs or boxes, and eaten their way through the crumbling wood. When repotting large palms, make the compost rich, say to three of chopped sod use one of well decayed manure, and about a five-inch pot of bone meal to every barrow load of soil. By making use of properly rigged tackle the plant is raised, the new tub placed under it, the plant let down into it, worked about until it is exactly in the center, straight up and down and just right as to the depth in the box, and now the new soil is rammed into the remaining space all around, after which a thorough soaking will complete the job. Keep your palms clean by examining them every ten days and when needed giving a thorough cleaning to prevent insects from gaining a foothold.

Starting Fires

There are quite a few florists who have had their fires started by the end of August, but there are others who do not start them until the last thing. We have now come to the season where we have the chilly nights and the majority of plants will need fire heat right along now. There is no good in trying to save coal at the expense of growing stock, for when they once get a check they seem to hold it well into the new year, so run a little heat in all your houses as it makes the atmosphere better.

Mr. Farrell's next notes will be on the following: Cattleyas; Eucharis; Cyclamen; Hydrangeas; Jerusalem Cherry; Wintering Acacias and Genistas.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Shading

The commencement of another week will find us in the middle of September with nearby "Indian Summer" days and the fall not very far distant. The sun is relinquishing its power each day and soon the time will come around when we cannot see too much of it. Any shading that was put on the glass in the spring or summer months to make existence more tolerable for our subjects housed underneath should either be reduced in thickness or removed entirely as the case calls for. In this department most of our hardwood subjects will be preparing for next season in the way of ripening up wood, an essential process to obtain the best results, which will require all the sunlight that is to be had. Vineries that were shaded early will have nearly all the shading worn off with the weather; better yet if it is all gone but the chances are some still remains, in which case have it removed. Any houses that still have ripe fruit hanging, and the season has still to be prolonged for them, must perforce be left for a time but let it come off immediately the last bunch is cut. Young vineries, too, should have all shading removed; they will stand all the sun we shall get now. Help it off the late house, too, especially over such varieties as Gros Colman and Barbarossa. These will often show a reddish tint when ripe if not given plenty of sun when finishing.

Tomatoes

Lose no time in getting the tomatoes into their permanent quarters. Plants going in now will have some of their best fruit for the holidays and succeeding months. Any fairly rich open soil will grow them, coupled with the requisite care and attention. Where a large quantity is to be grown on wide benches it will pay to give them room. Crowded plants in the winter time are near worthless. 2 ft., 3 in., by 18 in. will be found enough distance for the general run of benches, but be governed by the width and give the plants the greater distance from east to west so that the sun's rays can penetrate between them. See that the plants are not dry at the time they are planted.

Lettuce

Lettuce can be protected from early frosts in the gardens similar to bush beans, which should be practiced as long as possible. It will be a long time before spring again and the strain on frames and the vegetable house is no light one all the long winter months. Lettuce in the cold frames to furnish a supply before the very severe weather sets in should now be growing nicely. Encourage it in every way possible, chief of which is a loose surface-soil so that the air can penetrate and sweeten the soil. If the soil was enriched with a dressing of bone meal no feeding will be needed. Keep the plants as hard as possible which will fit them for any cold snap they may have to pass through.

Bush Beans

Continue to make regular sowings of bush beans every ten days or two weeks to keep up a continuous supply. If only half a dozen rows are put in at a time they will more than repay the extra trouble. By sowing a whole bench, more than enough will be on hand for a week and then a shortage will be experienced until the next bench comes in. The case is reversed with spinach, which also can go in now. The leaves of this are picked and more will replace them, which makes the supply from any one sowing much longer than with the beans.

Gathering Late Apples

This subject may not come under the heading at the top of the page but it is one that will concern most readers. These late apples invariably are for "Keeps" and, although money will buy more if these go wrong, it is poor satisfaction to know that they went wrong through carelessness at the time they were gathered. The fruit room furnishes a pretty sight through the winter months with each variety staged by itself and happy is the man who can look them over and say—"all's well." Granted, a few will go wrong under the best management, but there's a limit to all things, including bad apples. Nowhere should the big red-lettered labels "Handle with Care" be more in evidence than at the time late keeping apples are being gathered. It is the bruises they receive before reaching the fruit room that causes so many to decay prematurely. Gather and store them when dry and without bruises and they will keep as long as is claimed for them.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Weeds Around the Houses

With more rain, which we have been having, the weeds all around the greenhouses will flourish as they never did before, providing they are allowed to do so. Even in spite of all the work that may have to be done inside it will pay the growers to spend so much time every week on the outside of the greenhouses. The place that can boast of a lawn will generally boast of the highest dividends. The cleaner the place on the outside the easier it will be to keep it so inside, for the weeds will not be harboring insects of a hundred different species, and plant diseases, which are bound to affect the roses in either direct or indirect way. Therefore clean up.

The Coal Bin

NO, it does not pay to say that there is time enough to worry about the coal when it gets cold. The progressive grower will have his coal ordered and in the bins long before the winter sets in. That is why the place pays better, for everything is done when it should be and results show up accordingly. The boilers, also, should be in very good shape in order to be ready when they are called to do duty. In case the whole heating system has not been overhauled during the summer months it will pay to go over all the pipes at once before much heat is used, as all the pipes will then be hot and work can go forward only with the greatest difficulty.

Tarring Roofs of Worksheds

This is another item that is not exactly rose growing, and yet it has considerable to do with it. When the winds blow in the winter many roofs are torn up and it costs a good deal to repair them. Much of this damage could be avoided if the roofs were tarred once in a while. The best time to do this is while the weather is still warm and the roofs perfectly dry. Apply the tar hot, and then sprinkle some sand to dry the tar, at the same time making a very durable coating for the roof.

The Night Temperature

Now that the nights are getting to be quite cool, the night temperature should receive careful attention, or mildew will be likely to start in. It is best not to let the houses drop down too low, for the thermometer often runs up a good deal in the daytime. Do not close the ventilators altogether at night. It is much too early in the season to begin this kind of work. Better leave on at least a crack of air, using artificial heat to hold up the temperature, if necessary. About 64 degrees F. is right for most of the roses now in cultivation, and the roses will grow much quicker if run this way. Then, too, the houses will run up in the daytime, and it does the roses no good to have too great a difference between the day and night temperature.

BRITISH HORTICULTURE.

At the annual meeting in London of the Horticultural Trade Association, Wm. Cuthbertson of Dobbie & Co., Edinburgh, was unanimously elected president.

A New Tomato.

Amongst the exhibits at the show of the Royal Horticultural Society on August 26 was a new tomato, Buck's Tresco, shown by Chas. H. Buck, of the Tresco Nursery, Ipswich. The fruit is of a suitable size for commercial purposes, well colored, and of excellent shape, whilst the flavor is everything that can be desired. The sample trusses indicated that the new tomato is a heavy cropper. Each plant usually carries not less than 28 pounds of fruit under ordinary culture.

Gladiolus Show in London.

At the summer show of the National Gladiolus Society, held in the Royal Horticultural Hall, London, a first-class certificate was awarded to Electra, a useful scarlet, with the lower petals containing a tinge of white, shown by P. Hopman & Sons, Hillegom. Awards of merit were allotted to the following: Prince of Wales, salmon with a yellowish centre, from C. van Zanten, Hillegom; Mrs. Frank Pendleton, flesh pink with dark centre, from Firma Vos Mz, Sassenheim, Haarlem; King of the Blues, dark blue, from K. Velthuys, Hillegom; Pink Perfection, soft pink, from P. Hopman & Sons, Hillegom; Libesfeuer, scarlet, from De Ruyter, Noordwijk, and Loveliness, creamy white, from the last named grower.

W. H. ADSETT.

BLACK SPOTS ON CARNATION FOLIAGE.

Editor HORTICULTURE:

I am sending you carnation leaves affected with black spots. The plants are benched for some time. We have sprayed with insecticide but it seems to have no effect. We would be very much obliged if you could tell us what it is and what we could use to stop it.

Yours sincerely,

Long Island. A. R.

The sample of carnation foliage which come with foregoing is, we think, affected with a fungus arising from a heavy mulch of cow manure, which will appear a week or so after mulch is put on. As it ripens, these spores (if that is what they are), are thrown out on the foliage or even the bench boards and stick there. No doubt Bordeaux would help in spraying. In answering the query, we would ask if cow manure, fresh, was used as a mulch? We don't think the fungus propagates on the carnations, and, aside from looks, hardly think it dangerous.

PATTEN & CO.

Tewksbury, Mass.

FRUIT AND NUT GROWERS TO MEET.

An event of national importance to fruit and nut growing interests of this continent will occur in Washington, D. C., November 17 to 22. On this occasion the American Promological Society, The Society for Horticultural Science, The Eastern Fruit Growers' Association and the Northern Nut Growers' Association will meet as a unit event designated as Fruit Week. The programs and business of the separate organizations will be conducted independently in the same building, while all exhibits will be displayed in common, though entries shall be made through the respective bodies, thus keeping the identity of each intact.

Ample cold storage space has been provided near the meeting place and persons contemplating making an exhibit of perishable fruits may forward material well wrapped and packed to the Washington Market Company, who will care for it at a very nominal charge. All packages should be plainly market "for the American Pomological Society." Requirements for exhibit space should be filed before October 15 with the secretary of the Pomological Society, who may be addressed at 2033 Park Road, Washington, D. C. Application for entry for Wilder medals should also be made to the secretary of the society not less than ten days previous to the date of meeting.

HORTICULTURE

VOL. XVIII SEPTEMBER 13, 1913 NO. 11

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

NOTES ON CULTURE OF FLORISTS' STOCK—Get Your Compost Supply—Lifting Shrubs for Forcing—Making Outside Lily Beds—Nephrolepis—Transplanting Large Palms—Starting Fires—*John J. M. Farrell* ... 365

FRUIT AND VEGETABLES UNDER GLASS—Shading—Tomatoes—Lettuce—Bush Beans—Gathering Late Apples—*George H. Penson*..... 366

ROSE GROWING UNDER GLASS—Weeds Around the Houses—The Coal Bin—Tarring Roofs of Worksheds—The Night Temperatures—*Arthur C. Ruzicka*..... 367

BRITISH HORTICULTURE—*W. H. Adsett*..... 367

CLUBS AND SOCIETIES:
Report of School Garden Committee, S. A. F..... 369
New York Florists' Club—Florists' Club of Washington—Gardeners' and Florists' Club of Boston—Club and Society Notes..... 370

OBITUARY—William Henry Maule, portrait—John B. Nugent, Sr., portrait—W. H. Sawvel..... 372

SEED TRADE..... 374

OF INTEREST TO RETAIL FLORISTS:
Steamer Departures—New Flower Stores..... 376
Flowers by Telegraph..... 377

FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago..... 381
New York, St. Louis..... 383
Cincinnati, Philadelphia, Washington..... 389

MISCELLANEOUS:
Black Spot on Carnation Foliage—*Patten & Co*..... 367
Fruit and Nut Growers to Meet..... 367
Connecticut State Fair..... 369
H. F. Michell Trial Grounds at Andalusia, Pa.—Illustration 369
In Bankruptcy..... 372
Catalogues Received 374
News Notes..... 377
Personal—John Young, portrait..... 378
Washington Notes 378
Chicago Notes—Philadelphia Notes..... 379
Publications Received—Incorporated..... 388
Greenhouses Building or Contemplated..... 390
Patents Granted..... 390

Scentless musk?

We have received a communication from Mrs. Francis King calling attention to a letter she had received from a lady in England—Miss Jekyll—asking whether the "musk plant," Minulus moschatus had been known to lose its scent under cultivation in this country. Miss Jekyll states that "during the last two or three years it has entirely lost its very sweet scent in English gardens." We notice that this question has already been pretty well threshed out in one of the English horticultural journals, in which the correspondents do not all agree that any change has come over the musk plant. In this country, of which it is a native, we do not think musk is generally regarded as a "very sweet scent." It is grown more or less, all around, and so far as we have noted, has lost none of its characteristic odor. If any of our readers can give any information on the subject we shall be glad to publish it.

"Show me"

Our Philadelphia correspondent, in his notes in this issue on the recent dahlia show at Wanamaker's, tells us that made-up designs and baskets showing many different effective ways of using the dahlia were a feature. Our horticultural bodies giving public flower shows can take a useful hint here. John Wanamaker is recognized as one of the most clever and successful advertisers in the business world. One of his objects in giving this dahlia show was undoubtedly to increase the sale of dahlias and so with that end in view he goes further than to merely display the various varieties in monotonous rows of bottles or vases, and proceeds to whet the public interest by showing them the many uses to which these flowers may be put and how to produce the best decorative effect by their use. Of course, where a horticultural club or society has for its sole purpose the demonstration of skill in the production of fine material these suggestions have no application. But if a part of its aim in life is to increase the public interest and help make the use of flowers more general about the home and elsewhere, then its opportunity and its duty are plain enough. The people are ready to be shown how.

Publicity

The question as to what has become of the "publicity" boom has been repeatedly asked of late. We have noticed, however, that those who propound this question are not always of those who have ever shown any excess of zeal to contribute of their time or their means towards any such organized movement for the general good. Any one in close touch with club and society activities soon has the conviction forced upon him that a very large proportion of his fellow florists are not averse to letting the other fellow do the work. The whole aim of "publicity" is to increase the sale of flowers and plants, not necessarily on holidays and special occasions that already consume about all that is offered at a normal price, but on every day throughout the year. What is first needed to bring this about is that the rank and file of the trade shall be in sympathy and ready to extend support and co-operation as far as lies in their power, and that then the best talent in the profession be enlisted to formulate and put into operation some broad-gauge systematic plan of action. This is more easily said than done. Constructive force and executive ability of the highest order will be indispensable in the initiatory period especially. We have no doubt that the daily consumption of florists' flowers in every part of this country could be quickly doubled and trebled and then doubled again by the expenditure of the right kind of energy in the right way, with a well-equipped and efficient S. A. F. department as a basis. Very little permanent benefit can be expected

REPORT OF SCHOOL GARDEN COMMITTEE OF S. A. F.

By Benjamin Hammond.

In the city of Milwaukee there is a beautiful ornamental park on Grand avenue, in which is a monument of George Washington. At the foot of the pedestal stands a mother and her young son, the mother pointing upward to Washington. This is an object lesson of the first order, inspiring the child to high ideals. Home gardening in Milwaukee is being well looked after and the results in that direction have set an example country wide. The work of the school garden is an economic incentive that is producing valuable results; the home garden transforms many a barren lot into a bit of productive land, carrying with it habits of industry and thrift.

The florists of America scattered the country over, in the smaller cities and villages, are a local object lesson to inspire the growth of practical beauty. The products of the greenhouse, large or small, are visible in the cheering and beautifying of home, school or public occasion. Your committee, realizing this important work, has as far as lay in its power, aided in stirring up this spirit by sending an illustrated circular letter, nicely printed, to every superintendent of schools where a member of the Society of American Florists resides, and to each commissioner of education in every state. The school garden work is enthusiastically done in many cities. Here in Minneapolis and St. Paul will be found notable examples of school gardening at its best. In Milwaukee our committee-man, Mr. Whitnall, has made a mark in beautifying plain places. In Washington, D. C., 30 years ago and less, it was unkept and untidy, today it is largely a "tidy town." One woman was a prime mover there, Miss Sipe, and the government department followed suit. In Cleveland, Ohio, Miss Miller has done more, I believe, to improve plain home surroundings by her school garden work than Mr. John D. Rockefeller with his huge benefactions.

At Wilkesbarre, Pa., is another example. Mr. Seybold, who, at Baltimore, helped start the school garden work in that city, is now transforming Wilkesbarre. In Georgia, in the city of Athens, teachers for other schools are being trained as time will permit, and this work wherever it is done starts a spirit of local leadership in tidiness and beauty. Wherever you find the taste developing among the people for tidiness, there comes with certainty the demand for flowers. The larger cities have led off in this work, and, of course, the cities are the great commercial markets for flowers, and the school garden and the home garden create a desire for these beautiful products of the florist's vocation.

Children who may never make professors or bookkeepers would take an interest in this work and stick to it, developing mentally along that line of practical benefit, without doubt, for future years. In Canada the value of school garden work is probably more appreciated than in the smaller towns of the U. S. At Guelph, Ont., attention is given to giving the teachers some personal instruction to be used in their professional work. In Louisville, Ky., much work has been done in flower growing, especially bulbs, hyacinths, tulips, narcissus, daffodils. In Philadelphia, work in the school garden line is keeping up. William Penn's original plan was to make and keep his new town a green town where sunlight may shine and comfort and peace prevail. In 1912 over 92,000 children attended these gardens. At Rock Hill, S. C., the teaching of school garden work and mill hands how to make gardens, is being pressed by J. L. Carberry, under direction of the U. S. Department of Plant Culture. In Rhode Island at the State College, Kingston, Ernst K. Thomas is in real earnest in developing school and home gardens. He advocates flower borders for each vegetable bed, and in a school garden plot puts a flower bed in the center. At Hartford, Conn., in a tour of the parks, recently, evidence was visible of the home culture of dooryards and the opportunity for the little folks to learn how to make gardens for flowers, etc.

The Panama-Pacific International Exposition at San Francisco is planning to have a grand showing of school gardens, and in all this work no man stands in more effective position to uplift his community than the member of the Society of American Florists. The school garden fosters the activities of child life; the home garden certainly develops the sense of ownership and respect for private property. This we witnessed in our own community, and no florist's establishment ever did a town anything but good. These examples here cited are only one here and there, picked out from a mass of correspondence, showing the interest in this work. As has been said the committee thus far has simply gone as far as practicable in suggestions with the school men in charge of the local schools to have an eye on a grand good work, that is. *School Gardening*, wherever it may be taken up.



View of the Trial Grounds of H. F. Michell Co., Andalusia, Pa.

CONNECTICUT STATE FAIR.

At the Connecticut Fair, held at Hartford last week the floral department, under the direction of Alex. Cumming, Jr., was of unusual extent and excellence. The Bon Ton Flower Shop won a $20.00 cup with a wreath of American Beauty roses. Other prize winners included: B. F. White, Terryville, gladioli; G. L. Stillman, Westerly, R. I., dahlias; C. K. Swenson, Elmwood, zinnias; J. H. Albison, New Britain, asters; E. C. Lewis, Taunton, gladioli; T. H. Judd, Danbury, asters; A. R. Adams, Hartford, gladioli, etc.; F. W. Lorenz, Meriden, asters; J. H. Slocum, New Haven, dahlias; M. E. E. Hastings, Windsor, collection; A. Righenzi, decorative plants, dahlias, etc.; H. L. Metcalfe, asters; N. Nelson, collections, plants and flowers; C. W. Brown, Ashland, Mass., gladioli; W. S. Mason, Farmington, hardy perennials, annuals, etc.; J. M. Adams, gladioli; A. B. Howard & Sons, Belchertown, Mass., verbenas and petunias; A. B. Goodrich, Glastonbury, asters; H. F. Whiting, geraniums, fuchsias, etc.; Louis Chancy, groups of flowering plants; W. W. Hunt & Co., collections of shrubs, evergreens, etc.; J. F. Huss, stove and greenhouse plants, hardy perennials, annuals, etc.; John Coombs, palms, ferns, etc.

An organization to be known as the New York State Nurserymen's Association was formed at Utica on Sept. 5, by nurserymen from many sections of the state. The following officers were chosen: President, E. S. Osborne of Rochester; vice-presidents, J. Pitkin of Newark, Maxwell Sweet of Dansville, F. A. Guernsey of Schoharie, and F. J. Smith of Fredonia; secretary, John Watson of Newark; treasurer, Horace Hooker of Rochester. On the executive committee are J. B. Morris of Dansville and John Rice of Geneva.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The opening meeting for the new season held in Grand Opera House headquarters on Monday evening, September 8, was a very gratifying one in attendance and interest, about fifty members being present. Reports were made by entertainment, outing and transportation committees and Secretary Young gave an enthusiastic account of his experiences in Minneapolis, full details of the trade exhibition and outdoor planting, after which the thanks of the club were extended to the Minneapolis Florists' Club and Park Commissioners and a telegram of sympathy to Theodore Wirth on account of his accident, was voted. H. A. Bunyard on the outdoor exhibition; Leonard Barron on the gardens of the Northwest; Frank Traendly on the hospitality extended to the Convention ladies; M. C. Ebel on general topics, including insects; John G. Esler on recreation; Joseph A. Manda on the sports; Chas. Lenker on Sulzer's veto of the Cornell Bill, and Max Schling on the interests of the retail dealers, all together made a pretty lively program. The Convention testimonials were uniformly eulogistic in the highest degree.

The death of John B. Nugent, Sr., was reported and a committee on resolutions was appointed, consisting of W. F. Sheridan, John Young and F. H. Traendly.

A brilliant exhibition of gladioli, dahlias, etc., was made by Messrs. John Lewis Childs, Thos. W. Head and C. H. Totty, to each of whom the thanks of the club were voted. Mr. Totty showed the new early outdoor chrysanthemum Helene

FLORISTS' CLUB OF WASHINGTON.

Stating that the Minneapolis convention was by far the best that he had ever attended, William F. Gude entertained the members of the Florists' Club of Washington with a very interesting account of the proceedings and of the various entertainments provided for the florists and their families The remarks of several other members of the Club who have just returned from vacations spent in Boston has set the others to planning to take in the next convention to be held there and a good representation from this city may be expected. The Secretary was instructed to convey to Mr. Robert McLennen the congratulations of the club upon his having attained the highest individual bowling score at the convention and the hope that he may repeat the performance next year. This is an added incentive to the local bowling club, of which he is a member, to do their best with the hope of winning the team prize.

Upon adjournment refreshments were served and the evening proved a pleasant one regardless of the extreme heat which kept a number of the florists away. N. L. Hammer acted as secretary in the absence of Mr. Mayberry, who has, accompanied by Mrs. Mayberry, been spending a short vacation in Maryland.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, September 16, 1913, at 8 o'clock. The subject of the meeting will be "Convention Echoes," with short addresses from President Farquhar, of the S. A. F., Vice-president-elect Patrick Welch and other prominent club members who attended the late Minneapolis Convention. There will be considerable other business of importance and it is hoped there will be a large attendance at the coming meeting to open the fall campaign.

W. N. CRAIG, Sec.

CLUB AND SOCIETY NOTES.

The annual show of dahlias, fruit, etc., will be held at Horticultural Hall, Boston, Friday, Saturday and Sunday, Sept. 12 to 14. Admission free.

Mrs. John Steidle will entertain the St. Louis Ladies' Florists' Home Circle on her birthday, Wednesday, September 17, at her home in Olivette, Mo.

The St. Louis County Cut Flower Growers' Association held its meeting Wednesday night, Sept. 3. It was arranged to hold an outing some time this month.

The Detroit Florist Club held its meeting, Sept. 1, at the home of J. F. Sullivan. J. F. Sullivan, M. Pochelon and R. M. Unger were appointed publicity committee.

The Cincinnati Florists' Club held its regular meeting last Monday evening. Only routine business was transacted. The attendance was very much better than at the previous meetings.

The annual dahlia show of the New Bedford (Mass.) Horticultural Society will be held on Friday and Saturday, September 19 and 20. The society will also hold a chrysanthemum show early in November.

The Pittsburgh Gardeners' and Florists' Club met at the Fort Pitt Hotel on Tuesday evening, September 2nd. Mrs. E. McFath talked on "Hardy Plants" and Fred Burki told about the Minneapolis Convention.

The twenty-seventh annual convention of the Association of American Cemetery Superintendents will take place at Buffalo, N. Y., on September 17, 18 and 19. Bellett Lawson, Jr., River Grove, Ill., is secretary and can supply all advance information.

The Society of Iowa Florists at its annual meeting on August 27, elected officers as follows: Pres. M. J. Graham, Adel; vice-president, J. T. D. Fulmer, Des Moines; secretary-treasurer, Wesley Greene, Des Moines; directors, G. A. Heyne, W. H. Rickey, O. H. Herman and F. J. Olsan.

The regular monthly meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., Saturday evening, September 6th. The chief business was concerning the coming fall exhibition, which comes off on the 23rd and 24th of October. Walter Jack was elected chairman of the committee of arrangement and the names of several prominent gardeners were mentioned as likely to act as judges. Ed. Jenkins gave a very interesting talk on his recent trip to Niagara Falls and Toronto exhibition.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.



Group at Annual Outing and Games at Rye Beach, N. Y.

EXTRA FINE FIELD GROWN
CARNATION PLANTS

4000 WHITE PERFECTION, $5.00 per 100; $40.00 per 1000.
8000 ENCHANTRESS, $5.00 per 100; $40.00 per 1000.
3000 WINSOR LAWSON, $5.00 per 100; $40.00 per 1000.
900 T. W. LAWSON, $5.00 per 100; $40.00 per 1000.
350 WHITE LAWSON, $5.00 per 100; $40.00 per 1000.

Cash with order or satisfactory reference from unknown correspondents.

LAKEVIEW ROSE GARDENS
JAMESTOWN, - N. Y.

CHRISTMAS PEPPERS

Celestial and all other Peppers. Strong plants with Fruit from 4½ in. pots, $10.00 per 100.

RUBBER PLANTS (Ficus Elastica)
Strong stock from 6 in. pots 20 to 24 in. high, $6.00 per doz.

500 or more at 1000 rates. Cash with order.

FRANK OECHSLIN
4911 Quincy St., Chicago, Ill.

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case) ...	$1.25	$8.50
14 ctm. bulbs (1000 to case) ...	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Poinsettia Pulcherrima

Nice strong plants from 2½-in. pots, $5.00 per 100; $45.00 per 1000.

ANTON SCHULTHEIS
316 19th Street, COLLEGE POINT, L. I., N. Y.

Very Large Evergreen and Deciduous Trees
LARGE PRIVET
The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

LOECHNER & CO.
JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

Flowering, Decorative and Vegetable Plants
In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciosissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.
LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N. J.

Obituary

William Henry Maule.

Big-hearted, high-minded, keen-sighted, shrewd, far-seeing, impetuous, impulsive, cultured, kindly William Henry Maule has gone from our midst in a flash—and left us all lamenting! To me he was an ideal of all that was fine and noble in our profession. He came of the sturdy Anglo-Saxon stock that made Pennsylvania famous in the days of the making of this mighty nation, and nobly he upheld the glorious record of his ancestors in every walk of life! GEORGE C. WATSON.

In the death of William Henry Maule the American seed trade has lost not only one of the most prominent, but also one of its most popular, useful and progressive members. I loved and admired William Henry Maule and am proud of the fact that



WILLIAM HENRY MAULE.

he loved me—as he did his other close friends—for whom he would have gladly made any sacrifice. With nine other close personal friends as honorary pallbearers I followed his body to its burial this afternoon in the beautiful grounds of the Church of the Redeemer. We ten who were among those who knew him best realize that his place can never be filled and that with his widow, daughters and brother we shall feel his loss as long as we may live. He has passed into the "great beyond," and deeply as we may sorrow he would be quick, could he speak, to say that while living it is our duty to look forward, not backward, and that while on the earth each should do his "level best" towards helping our day and generation—and this, not for hope of reward, nor fear of punishment. The world is poorer today that William Henry Maule is with us no more. I only wish that many more could have known him as intimately as I and a few other close friends in the seed trade. The trade would be better for such knowledge.

It is only a few years before we all must pass over into the "great beyond." Meanwhile, let us have that broad charity that will excuse each other's failings and strive earnestly, as did William Henry Maule, to help one another, realizing that "we pass this way but once."

W. ATLEE BURPEE.

The sudden and unexpected death last week of Wm. Henry Maule, caused a shock and gripping of the heart to many a member of the American seed trade. The Grim Reaper has levied heavy toll on the American seed trade in the last few months—Frank L. Emerson, A. L. Don, Wm. Ewing and now Mr. Maule, have all "bowed to the "boatman's call" within the past six months.

The writer has had a long, though by no means intimate acquaintance with Mr. Maule and therefore will not attempt even a brief biographical sketch. This item is intended as a small tribute to the memory of a leading member of the seed trade of this country.

Mr. Maule was a man of very marked and strong personality, a fine type of the forceful, aggressive, yet frank and kindly business man, broad gauge and tolerant. He would often relate some marked success of a competitor with as much apparent enthusiasm as if it were his own. The loyalty of his employees, and particularly those who frequently came into close contact with him, was often noted and though blunt and sometimes severe in criticising negligence or inefficiency, he was most appreciative of devotion and loyal service.

Mr. Maule though for many years a member of the American Seed Trade Association—we have been informed he was a charter member—was not personally very well known to his fellow members, and particularly to those who have joined the association within the last decade. Fifteen to twenty years ago, or even further back, Mr. Maule attended the conventions of the Association quite regularly and took a prominent part in the discussion of all important matters, and is well known to the older members of the association. Though perhaps not so well acquainted personally with the seedsmen of the country as many others, his name was almost as well known as any seedsman of the past quarter of a century and his customers were intensely loyal, a fact which may be explained on the ground that he never knowingly allowed to be sent out anything not of the best quality and germination., Any one really having goods of a superior quality, if he could convince Mr. Maule of the fact, found in him a liberal buyer and loyal customer so long as quality was not permitted to deteriorate. Taken all in all, Mr. Maule reflected conspicuous honor and credit on the seed trade, as he would on any business in which he had engaged. His being a personal business, he having no partners, we have not learned what instructions, if any, he has left for continuing it.

To the widow and family we extend our earnest sympathy, and believe we voice the practically unanimous sentiment of the seed trade at large.

John B. Nugent.

John B. Nugent, Sr., died at his home in New York City on Saturday, September 6th, at the advanced age of 91 years and 5 months. Mr. Nugent was born in the County of Meath, Ireland, April 8, 1822. He came to this country in 1872 and started in the florist business at 69th street and Park avenue and continued uninterruptedly in active business until about three years ago. He was a member of Monitor Lodge, No. 528, F. & A. M., also of 73rd Street Presbyterian Church and the church and the lodge held funeral services jointly on Monday night, many florists attending and numerous floral tributes being sent. Interment was at Woodlawn on Tuesday. Three children survive him—John B. and Wm. F. Nugent, both of whom are in the florist business, and one daughter Mrs. Marian Griggs.



JOHN B. NUGENT, SR.

There are seven grandchildren and five great-grandchildren.

One only needs to look on the portrait which accompanies these lines to know what manner of man Mr. Nugent was. His sterling manly character is read in every lineament. A man beyond reproach, he was universally respected. He rounded out a long, useful and benignant life.

W. H. Sarvel.

W. H. Sarvel, a wholesale grower of Kansas City, Mo., took his own life on the morning of Thursday, August 28. Nervous breakdown from overwork is believed to have been the cause.

IN BANKRUPTCY.

Louisville, Ky.—The liabilities of Nanz & Neander are given as $12,700.

Poughkeepsie, N. Y.—Sunnyfield Nursery Company. Assets, $6,724; liabilities, $5,798.

GET THEM AT DREER'S

New French Hydrangeas

We have a splendid stock of all of these new varieties the majority of which we are in position to offer at greatly reduced prices.

New Hydrangea E. G. Hill

This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size, color a most pleasing shade of pink which does not fade, growth vigorous, foliage of a pea green color, large and attractive. It is one of the easiest to force. coming into flower as early as Mme. Emile Moulliere. 2¼ inch pots, $2.50 per doz.; $20.00 per 100.



New French Hydrangea General De Vibraye

General Collection of New French Hydrangeas

Avalanche. A splendid large white with a well established reputation; an easy variety to force. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Botaniste Peltereau. Enormous flowers of a pretty mauve rose. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Bouquet Rose. Large trusses of rosy amber turning to bright pink; a favorite with all growers. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Dentelle. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Fraicheur. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

General de Vibraye. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz., $15.00 per 100.

La Lorraine. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mme. A. Riverain. Superb bright rose color; very vigorous and floriferous. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mme. E. Mouillere. Probably the most popular white variety on the market today; an early, easy variety to force. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100.

Mme. Maurice Hamar. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mme. Raymond. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Agnes Barillet. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mlle. Renee Gaillard. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.00 per doz.; $8.00 per 100. 7-inch pots, 50 cts. each.

Mlle. de Tremault. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Mousseline. A beautiful mauve-rose with cream-colored centre; the flower-heads are large and held erect; a fine acquisition. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mont Rose. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Mons. G. Renault. Very large flowers of a bright rose with carmine reflex; very free and easily forced. 2-inch pots, $1.25 per doz.; $8.00 per 100. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Ornament. Large pretty-mauve-pink flowers, very free flowering. 3-inch pots, 85 cts. per doz.; $6.00 per 100. 4-inch pots, $1.50 per doz.; $10.00 per 100. 7-inch pots, 50 cts. each.

Ronsard. Flowers and trusses very large, of a beautiful rose-tint. 3-inch pots, $1.50 per doz.; $10.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100.

Radiant. Splendid rose-carmine, quite distinct from all others, an easy variety to force. 2-inch pots, $2.50 per doz.; $20.00 per 100.

Souvenir de Mme. E. Chautard. One of the very best, of splendid erect habit, very robust, medium sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

Senateur Henri David. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer. 2-inch pots, 85 cts. per doz.; $6.00 per 100. 3-inch pots, $1.25 per doz.; $8.00 per 100. 4-inch pots, $2.00 per doz.; $15.00 per 100. 7-inch pots, 50 cts. each.

For a most complete list of seasonable stock and particularly in our specialties in the Decorative line such as Palms, Ferns, Dracaenas, Ficus, Pandanus, etc., see our current wholesale list.

HENRY A. DREER, Inc., 714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Palmsville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Topeka, Kan.—The Hayes Seed House are erecting a storage house, 50 x 100 feet.

Clarinda, Iowa—The A. A. Berry Seed Co. are erecting a four-story warehouse, 30x60.

Gilroy, Cal.—The Pieters-Wheeler Seed Co. expect to move here from San Jose next November.

Waterloo, Iowa—E. S. Quinn has resigned as vice-president of the Griswold Seed Co., at Lincoln, Neb., and will become manager of the Galloway-Bowman Seed Co., here.

A. W. Brill of Long Island writes that the early prospects were for an enormous yield of cabbage seed, but the dry weather and green lice set in just before harvest time, with the result that they got only about one-quarter of the crop expected, and now they are refusing every day to quote prices on large lots.

J. J. Wilson, who for the past fifteen years has been connected with J. M. Thorburn & Co., during half of which time he was secretary of the corporation, has started a new concern, incorporated in the State of New Jersey as the J. J. Wilson Seed Co., Mr. Wilson being president and active manager of the new company, which has opened for business at 79 Orange St., Newark, N. J.

Th Weekly News Letter, published by the U. S. Department of Agriculture under date of September 10, 1913, states that a number of shipments of orchard grass seed have recently been imported into the United States which contain only about 25 per cent. of orchard grass seed, the balance being mostly chaff.

The import price of this seed is such that it cannot be recleaned but must be sold either in the condition in which it is imported or mixed with other seed. There is enough seed contained in these shipments to seed approximately 10,000 acres, and not more than a quarter of a stand can be expected where the low grade seed is sown.

CATALOGUES RECEIVED.

Winterson's Seed Store, Chicago, Ill.—Folder of bulb prices, wholesale.

V. Lemoine et Fils, Nancy, France.—List of Hybrid Gladioli, including novelties.

Reeser Plant Co., Springfield, Ohio—Wholesale Price List of Ferns, Bedding Plants, etc.

Nungesser-Dickinson Seed Co., Hoboken, N. J.—Folder of grass seed prices, wholesale.

Stumpp & Walter Co., New York.—Bulbs for Autumn Planting, Fall 1913. An excellent retail catalogue, freely illustrated.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

CHRISTMAS OR WINTER FLOWERING SWEET PEAS

	oz.	¼ lb.	lb.
Michell's Snowdrift, pure white, black seeded	$0.25	$0.75	$2.00
Christmas Pink, pink and white	.15	.50	1.50
Christmas White	.15	.50	1.50
Christmas Meteor, scarlet	.15	.50	1.50
Mrs. Alex Wallace, lavender	.15	.50	1.75
Mrs. Chas. H. Totty, lavender	.15	.50	1.50
Mrs. Edie Wilde, carmine red	.15	.50	1.50
Mrs. E. J. Dolansky, daybreak pink	$0.15	$0.50	$1.50
Mrs. Geo. Lewis, pure white	.15	.50	1.50
Mrs. Wm. Sim, salmon pink	.15	.50	1.75
Mrs. W. W. Smalley, satin pink	.15	.50	1.50
Le Marquis, dark blue	.15	.50	1.50
Watchung, pure white	.15	.50	1.50

Also many other varieties.

Our latest Wholesale Catalogue of Bulbs, Seeds and Florists' Supplies Just Out. Send for a Copy if you did not receive one

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

PEAS, BEANS, RADISH and all Garden Seeds — Growers for the Trade

LEONARD SEED CO.

ONION SETS

Write for Prices

226-230 W. KINZIE STREET, CHICAGO

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874 76 Milwaukee Avenue, CHICAGO, ILL.

T. C. Thurlow's Sons, Inc.—W. Newbury, Mass.—1913-14 List of Peonies, Iris, Phlox and other Perennials. A well selected collection.

Good & Reese Co., Springfield, O.—Fall Trade List for 1913. For Florists, Nurserymen and Dealers only. Roses are offered in large variety.

Little Tree Farms, So. Framingham Mass.—Wholesale Price List of Trees and Tree Seeds. An interesting list for foresters and large planters.

Framingham Nurseries, Framingham, Mass.—Fall Trade Price List of Trees, Shrubs, Evergreens, Vines and Roses. A thoroughly good and choice list.

F. H. DeWitt & Co., Wooster, Ohio. Geraniums and Pelargoniums. Contains an excellent portrait in colors of ever-blooming show pelargonium Easter Greeting.

Conard & Jones Co., West Grove, Pa.—"New Floral Guide" for Autumn, 1913. An enticing publication, covers adorned with floral subjects in colors and plenty of choice things listed.

A. T. Boddington, New York.—"Garden Guide" for Summer and Autumn, 1913. A quite distinct appearing catalogue with a real cubist cover illustration; liberally illustrated with new and "fetching" half-tones and otherwise a very promising proposition as a business getter.

R. & J. Farquhar & Co., Boston. Autumn Catalogue for 1913. Single early tulips on front cover and Spanish irises on back cover give a most attractive exterior to this up-to-date catalogue. There are 80 pages, profusely illustrated with new halftone engravings and the best of the season's offerings will be found listed therein.

The Aphine Manufacturing Company of Madison, N. J., manufacturers of agricultural chemicals, insecticides, fungicides, etc., has invaded the British Isles with their products and the British and American Fertilizer Company, Liverpool, is handling same. It is the purpose of this company to establish agencies among the nurseries and seed firms in the British territory. An attractive catalogue, giving detailed descriptions of the various products and containing many indorsements from past users, has just been issued by the British company.

GIANT PANSIES—Sow Now

Special Florists' Mixture $1.00 per oz. Trimardeau selections mixed. Trimardeau, Cassier's Giants Improved, Trimardeau Sorts. Bugnot's Giant Emperor Pure White. Separate $3.00 per oz. Mixed Colors.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

NEW WINTERFLOWERING
SWEET PEA LIST
has been mailed. If you have not received one, drop me postal.
ANT. C. ZVOLANEK
Greenhouses: BOUND BROOK, NEW JERSEY
Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice
On and after September 1, 1913 our address will be
98 Chambers St., N. Y.
Between Broadway and Church St.
BURNETT BROS.
Seedsmen
72 CORTLANDT ST., N. Y.

SEEDS
For Early Sowing
Price List for the Asking
The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

BULBS and HARDY PLANTS
Contracts made for Seed Growing
send for price list
E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS
Send us your wants. We will take care of them. We supply stock at market price.
Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

Kelway & Son
Wholesale Growers to the Trade of
Choice Stocks of
GARDEN, FARM
AND
FLOWER SEEDS
Please Write Now for Our
CONTRACT PRICES
Langport, Eng.

FOTTLER-FISKE-RAWSON CO.
COLD STORAGE
LILIUM GIGANTEUM
and
LILY OF THE VALLEY
From our own Cold Storage Plant
BOSTON
FANEUIL HALL SQUARE

PANSY SEED
Specially Blended for Florists Use.
TRADE PKTS. $1.00.
Wm. Elliott & Sons
42 Vesey St., New York

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches: Michigan and Wisconsin MILFORD, CONN.

The LARGEST OF ALL GIANTS
W. & D.'s AMERICAN SHOW
PANSIES
With Great Diversity of Color. ¼ ounce $1.50
WEEBER & DON, Seed Merchants
114 Chambers St., New York

When writing to advertisers kindly mention HORTICULTURE.

PANSIES
THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all leading varieties of Giant Trimardeau. Write for Prices.

FREESIA

REFRACTA ALBA:	100	1000
⅜ to ½ in. diameter.....	$0.75	$5.00
½ to ¾ in. "	1.00	8.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference.....	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15...	$3.75	$35.00
NARCISSUS, Paper White Grandiflora, 13-15...	1.25	8.00
LILIUM CANDIDUM, 20.....	5.00	40.00

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 15) NEW YORK, N. Y.

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. Kellholz, Quedlinburg (Germany)
High grade Vegetable and Flower Seeds
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmondson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders

IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506 Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Salem, Ohio—John Gunn has purchased the flower store of V. A. Cowgill.

Springfield, Mass.—H. W. McAlpin has purchased "The Flower Mart" on North Main street.

J. A. Schattmaier, formerly with Blackistone, Washington, D. C., has accepted a position in charge of the decorating department of the Metairie Nursery Co., New Orleans, La.

STEAMER DEPARTURES

Allan.

Turcsonian, Montreal-Liverpool.....Sept. 16
Lakonian, Montreal-London.....Sept. 21
Parisian, Boston-Glasgow.....Sept. 19

American.

St. Paul, N. Y.-Southampton.....Sept. 19
St. Louis, N. Y.-Southampton.....Sept. 26

Atlantic Transport.

Minnewaska, N. Y.-London.....Sept. 20

Cunard.

Lucania, Boston-Liverpool.....Sept. 16
Saxonia, N. Y.-Mediterranean.....Sept. 26
Ausonia, Montreal-Southampton.....Sept. 20
Carmania, N. Y.-Liverpool.....Sept. 20

French Line.

Floride, N. Y.-Havre.....Sept. 24
La Savoie, N. Y.-Havre.....Sept. 17
Rochambeau, N. Y.-Havre...Sept. 20

Hamburg-American.

Imperator, N. Y.-Hamburg.....Sept. 30
Pennsylvania, N. Y.-Hamburg.....Sept. 30
Amerika, N. Y.-Hamburg....Sept. 24

Holland-America.

Ryndam, N. Y.-Rotterdam.....Sept. 16
Potsdam, N. Y.-Rotterdam.....Sept. 23

Leyland.

Bohemian, Boston-Liverpool.Sept. 20
Winifredian, Boston-Liverpool.Sept. 27

North German Lloyd.

K. W. der Grosse, N. Y.-Bremen.....Sept. 16
Berlin, N. Y.-Mediterranean.....Sept. 16
K. Wilhelm II, N. Y.-Bremen.Sept. 23

Red Star.

Lapland, N. Y.-Antwerp.....Sept. 20
Kroonland, N. Y.-Antwerp.....Sept. 17

White Star.

Celtic, N. Y.-Liverpool.....Sept. 18
Majestic, N. Y.-Southampton.....Sept. 20
Cedric, N. Y.-Mediterranean.....Sept. 20
Teutonic, Montreal-Liverp'l..Sept. 20
Arabic, Boston-Liverpool.....Sept. 20

NEW FLOWER STORES.

Nashville, Tenn.—McIntyre Bros.

Marshall, Tex.—Jos. Dickert, Washington avenue.

Williamsport, Pa.—Kester & Hardin, 213 West 4th street.

Tuscaloosa, Ala.—Mrs. H. Alston, 2938 Eighteenth street.

St. Louis, Mo.—Otto Sander, F. Anthon, 5646 Delmar avenue.

Topeka, Kan.—The Rosery, W. A. Bolinger, prop., 103 West [illegible] street.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders in any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552 1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

FLOWERS BY TLEGRAPH.
SAN FRANCISCO
CALIFORNIA.
Pelicano, Rossi & Co.
123 KEARNY ST.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Louis, Mo.—Fred C. Weber, 1926-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

NEWS NOTES.

Rochester, N. Y.—Geo. B. Hart is erecting a new $25,000 business building.

Louisville, Ky.—John Werneke has purchased the greenhouse property of Mrs M D Reimers.

Urbana, Ill.—The University of Illinois has acquired 320 acres of land for horticultural purposes.

Oxford, Mich.—R. M. Unger has bought the greenhouses of Otto Stoll and will go into business as a grower.

Cleveland, Ohio—The Cleveland Plant & Flower Co. will open a wholesale flower establishment on or about October 1.

Baltimore, Md.—Leo Niessen Co., of Philadelphia, will soon open a new wholesale branch here at 5 and 7 West Centre street with W. E. McKissick in charge.

Ashland, Mass.—C. W. Brown, an enthusiastic grower of the gladiolus, had a show day on Saturday, August 30, when over 200 visitors inspected his spacious grounds. Over an acre and a quarter is devoted to gladioli and here are to be seen the finest varieties in their best form, including some very promising seedlings.

DID YOU See Our Display?
IT WAS A BEAUTY
EVERYBODY SAID SO
BY COMPARISON WITH OTHERS
IT PROVED CONCLUSIVELY
RICE SUPERIORITY
IT PAYS TO DEAL WITH
THE HOUSE THAT SETS THE PACE
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Personal

Theodore Wheeler goes as manager of the greenhouses of Mrs. A. D. Trumbull at Carbondale, Pa.

S. W. Carlquist of Ethelwynd Gardens, Lenox, Mass., is taking a trip to Niagara Falls for a few days.

Wm. Livesey has sold out his florist business in New Bedford, Mass., and has gone to San Diego, California.

Arthur S. Parker, of Stoneham, Mass., a well-known florist in the Boston market, is to be a candidate for the legislature on the Progressive state ticket this fall.

George Cartwright, manager of the Boston Flower Exchange, was presented with an oil portrait of himself, life size, by his friends in the market recently. P. W. Firth was the artist.

Thos. G. Williams, for some time past with H. H. Battles, Philadelphia, and formerly foreman at the John H. Taylor rose houses, Bayside, N. Y., has accepted a position with Peirce Bros., Waltham, Mass.

The engagement has been announced of Miss Alberta R. Billingham, of Jamaica Plain, Mass., to Mr. Hubert M. Canning, of Brookline. Mr. Canning is in the employ of Olmstead Bros., the well-known landscape gardeners.

Pleasant tidings come from Minneapolis that Theodore Wirth is getting along nicely after his accident. Personal letters received from him are in a very cheerful and optimistic vein and that goes a long way towards recovering from any physical ill.

The announcement, in this issue, that John Young, the popular secretary of the S. A. F. and New York Florists' Club, is about to re-enter the wholesale cut flower business in New York will be received with general approval by the trade. Mr. Young has had a thorough experience in the commission field, knows the market, knows the goods and knows the men who produce the goods and those who use them. With all this equipment and the good will of the floral trade everywhere, Mr. Young should build up a winning business and we hope to see him make a success equal to that which he has achieved in society work. Of wholesale florists in New York City, it may be said, "Their name is legion," but there will always be room at the top.

Boston visitors: Dan MacFie, superintendent of gardening at Sage Foundation Homes Co., Forest Hill, N. Y.; Harry A. Barnard, representing Stuart Low & Co., Enfield, Eng.; M. H. Walsh, Woods Hole, Mass.; J. Berg, representing Lion & Co., New York.

St. Louis visitors.—Martin Reukauf, of H. Bayersdorfer & Co., Philadelphia; J. J. Karins, of Dreer's, Philadelphia; H. Wenderoth, of Nick Wapler; S. Seligman, of Wertheimer Bros.; J. Buback, of Schloss Bros.; M. LeVine, of Lion & Co., and W. Dykes, of Ed. Jansen, New York.





JOHN YOUNG.

WASHINGTON NOTES.

The property at 14th and H streets, occupied by Z. D. Blackistone as a florist store, has been sold and the building will be demolished to make room for a modern office building.

William Marche reports having spent a very pleasant three weeks' vacation, accompanied by his wife and child, at Asbury Park, N. J., and a visit to New York and Philadelphia where he picked up a number of good ideas.

Mrs. Coffman, formerly at F. H. Kramer's F street store, has gone to Parkersburg, W. Va., where she will take up duties in the store there in which she has an interest. Her son Harold, who was with Gude Bros., is with her.

The Senate, as a Committee of the Whole, has agreed to amending paragraph 599 by the insertion after the word "seedlings" on page 149, line 22, of the words "four years old or less." This paragraph now reads: Bulbs and bulbous roots, not edible and not otherwise provided for in this section; all flower and grass seeds; coniferous evergreen seedlings four years old or less; all the foregoing not specially provided for in this section. This paragraph is within the Free List.

The Department of Agriculture has decided to maintain the quarantine which it some time ago placed on imported plants, fruit and seed which have been found to carry destructive insects and plant diseases. The Mediterranean fruit fly has resulted in the placing of a ban on Hawaiian fruit shipments, because the small headway made by this insect in the United States led the Department to believe that its spread would be a menace to the fruit and vegetable growers of the country and to the horticulturists. The latest quarantine established, which the Department shows no inclination to remove, prohibits the shipment of fruit from Mexico. The discovery of the "Mexican fruit fly," a dangerous pest, was responsible for this quarantine.

The eighty-second annual exhibition of the American Institute will be held in the Engineering Building, 25 to 33 West Thirty-ninth street, New York City, on Tuesday, Wednesday and Thursday, September 23, 24 and 25. Liberal prizes are offered for dahlias, orchids, gladioli, annual and hardy herbaceous flowers, ferns, palms, floral novelties, fruits and garden vegetables, etc. Prize schedules may be obtained from the secretary, 322-324 West 23rd street, New York.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

MERIT RECOGNIZED

A First-Class Certificate of Merit and a Highly Commended Award

Were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class.

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition — fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.
553 LAKE STREET KENDALLVILLE, IND.

CHICAGO NOTES.

C. H. Fisk is back from California, where rumor has it that he has invested in farming land.

C. A. Samuelson has returned from a western trip, which included an inspection of his apple orchards.

The Cook County Florists' Association held its annual picnic, September 7th and a glorious time was enjoyed.

Visitors: S. R. Welch, of Storrs & Harrison Co., Painesville, Ohio; H. Philpott, Winnipeg, Man., Can.; Sam Seligman, of New York, is still in Chicago, being detained by illness.

The preliminary premium list of the Chrysanthemum Society of America in conjunction with the Horticultural Society of Chicago and the Chicago Florists' Club, has been received here. The exhibit will be held at the Art Institute, November 5, 6, 7.

Some changes in the retail stores of the "Loop" are coming with the advent of the fall season. In the window of the Muir store on East Monroe street hangs a "For Rent" sign and the store now occupied by another florist is being advertised by the renting agent.

Starved Rock, a special feature in the newly acquired State Park of Illinois, and so called because of the fate of a tribe of Indians who lost their lives upon its summit, was the scene of a patriotic celebration, September 7. Flag poles were set and flags raised to their places while flowers were thrown into the river below in honor of the soldiers of 1812.

The American Importing Co., of So. Dearborn street, thus far known only through their specialty, gold letters for florists, have so increased their business that they now announce themselves as a general florists' supply house. They are putting on the market a new letter known as Mother of Pearl, which is very handsome and the firm announce themselves as willing and anxious to send samples to all in the trade. See their advertisement in another column.

PHILADELPHIA NOTES.

Edward Reid left on a three weeks' business trip through the southern states on the 9th inst.

Our old friend Raymond Kester, late of Pennock Bros. and the Hill-Heller Co., paid us a visit last week in company with his partner, Mr. Hardin. They are getting ready to open a flower store in Williamsport, Pa., under the title Kester & Hardin. The location will be at 213 West Fourth street, and they expect to be ready for business by the 20th inst.

The Wanamaker store gave a dahlia show this week which attracted good crowds—probably ten thousand a day for six days. About two hundred varieties were staged, these all coming from the Peacock Dahlia Farm in New Jersey. No flowers were sold but orders were taken for spring delivery. This event was undoubtedly a good boost for the dahlia in addition to being good business for Wanamaker and Peacock. Made-up designs and baskets showing many different effective ways of using the dahlia were a feature. Palms and ferns were freely used among the flowers to break the monotony.

Visitors: Wm. Rehder, Wilmington, N. C.; Raymond Kester and R. H. Hardin, Williamsport, Pa.; S. McClements, Randolph & McClements, Pittsburgh, Pa.; Mrs. C. M. Perry, Phoebus, Va.; Antoine Leuthy, Roslindale, Mass.

Gold Letters

1¼ inch	45c	per 100
1 "	40c	" "
¾ "	35c	" "

On all orders of 1000 initials or over we will include one compartment box free.

Mother of Pearl LETTERS

The latest for ribbon work. We made a hit right from the start. If you have not received our samples as yet, write us immediately and get on the mailing list of the

AMERICAN IMPORTING CO.
219 No. Dearborn Street, Chicago

BEAUTIES

$1.00—$3.00 per Dozen

Special price in quantity
Exceptionally fine stock
Good size flowers
The largest supply house in this market

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago
RUSCUS AND RUSCUS WREATHS
Write for Samples and Prices
POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 — TO DEALERS ONLY

Roses	CINCINNATI September 12			CHICAGO September 8			BUFFALO September 8			PITTSBURG September 8		
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00	20.00	to	35.00
" " Extra	8.00	to	10.00	12.00	to	15.00	10.00	to	15.00	10.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	6.00	to	8.00	4.00	to	6.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	3.00	to	5.00	1.00	to	3.00
Killarney, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	4.00	to	6.00
" Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	5.00	.....	to	2.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	2.00	to	6.00
" Ordinary	1.00	to	3.00	1.00	to	4.00	2.00	to	3.00	.....	to	.....
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	7.00	2.00	to	6.00
" " " Ordinary	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	.....	to	.....
Carnations, Fancy Grade	.....	to	1.50	1.00	to	1.50	1.50	to	2.00	.....	to	.....
" Ordinary	.....	to	1.00	.50	to	1.00	1.00	to	1.50	.....	to	1.00
Cattleyas	.....	to	.....	.....	to	50.00	.....	to	.....	.....	to	.....
Lilies, Longiflorum	8.00	to	10.00	8.00	to	10.00	8.00	to	10.00	10.00	to	12.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Gladioli	.00	to	2.00	2.00	to	3.00	1.00	to	3.00	1.00	to	4.00
Asters	.50	to	2.00	1.00	to	4.00	.50	to	2.00	.50	to	2.00
Daises	.....	to	.50	.25	to	.25	.....	to	.....	.....	to	.....
Sweet Peas	.....	to	.....	.25	to	.75	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	.....	to	50.00
" " & Spren (100 bchs)	15.00	to	2.00	35.00	to	50.00	25.00	to	40.00	20.00	to	40.00

BUY
BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



CEDAR BARK

Won't you want some Cedar Bark for fall window box work? Buy it now—we have a good stock and in **ten bundle lots** we will name you a price of **75c. per bundle; single bundles, $1.00 each.** A bundle contains about 30 sq. ft.

Galvanized Buckets for Growers and Retailers.

In any size to suit your requirements. These buckets are the most economical you can buy. They will outlast any other receptacles made. Do not rot do not crack can be easily washed out with or without handles.

No.	Width	Depth	Doz.	100
0	6 in.	5½ in.	$3.00	$20.00
1	7 in.	6½ in.	3.50	25.00
2	8 in.	7½ in.	4.00	30.00
3	10 in.	9½ in.	4.50	35.00
4	6 in.	10 in.	4.00	30.00
5	7 in.	12 in.	6.00	40.00
6	9 in.	14 in.	10.00	65.00
7	10 in.	18 in.	15.00	105.00
8	11 in.	21½ in	18.00	130.00

HEADQUARTERS FOR GREENS

Wild Smilax, $6.00 per case.
Bronze Galax, $2.00 per 1000.
Green Galax, $1.00 per 1000; $7.50 per 10,000.
Green Leucothoe, new crop, $1.00 per 100; $7.50 per 1000.
Green Sheet Moss, $2.50 per bag. **Wild Smilax,** $6.00 per case.
Asparagus Strings, 50c each.

Asparagus and Sprengeri Bunches, 50c. each.
Adiantum, $1.00 per 100.
Smilax, 20c. per string. **Cut Hemlock,** $2.50 per bundle.
Hardy Dagger Ferns, best quality, large fronds, $1.50 per 1000.
Sphagnum Moss, burlapped, 10 bbl. bales, each $3.75; 5 bale lots, each $3.50; 10 bale lots, $3.25 each.

RIBBONS AND SUPPLIES: many new patterns in exclusive Ribbons. **Our new illustrated catalogue of Ribbons and Supplies** will be ready in September. Let us have your name now, so we can mail you a copy.
Until September 15th, we will close at 5 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

P M QUALITY

Flower Market Reports

BOSTON Business is not showing any great advancement as far as demand goes, but the outlook is satisfactory in all respects. Quality of most items on the regular flower list is improving with the cooler weather and September Morn seems to exercise a healthy effect on the product generally. New carnations are just beginning to take their place in the market. Flowers are good and foliage clean, but stems are still too short for good work. Chrysanthemums are in; only a few, however, and mostly yellow. There is a clamor for cattleyas, but few are to be had. There will be a surfeit soon, though. Gardenias are beginning to look pretty good, but there is very little call for them. American Beauty roses are in good quality; sales very moderate. All other roses are abundant, with quality inferior and values very low. Special roses would sell just now, but they are not to be had and the low grade stock which is 90 per cent of the receipts is not wanted. Asters are overloaded on all sides; prices unquotable. Same holds true of gladioli, but these are rapidly decreasing in numbers. Sweet peas are useless, as a rule. Lilies and lily of the valley normal.

BUFFALO The market was filled up on everything the past week and the outlet was blocked especially on gladioli and ordinary asters. The best quality of asters are on and have taken well but the shorts have accumulated and very little will be realized on them. Roses are coming in heavier each day and there is an oversupply on short-stem stock. The medium and select blooms have taken better. Lilies have shortened up. Lily of the valley has cleaned up well this summer. There is a quantity of garden stuff but very little demand at this time.

CHICAGO The first week in September was one of extremes in temperature, making a new record for hot weather, followed quickly with another for cold. Flower sales are always quick to respond to weather conditions, especially locally. Shipping trade has been unusually good for most of the summer months, owing doubtless to the lack of rain in the country generally. Carnations are increasing daily in quantity, but the increase in length of stem is as yet not noticeable. Eight inches is a fair average. All the varieties of roses generally grown may now be found somewhere in the market, the Killarneys, Richmond, Rhea Reid, Bulgarie, Sunburst and Ward, and now comes Milady in its first season here, with its rich velvety red color and full petals making it a favorite one. Aster season gives no indication of being on the wane, but all the late varieties are coming on and prices holding firm. American Beauties are only keeping up with the demand, the cool days holding them back a little. Harrisii lilies are still in short supply, while rubrum have about disappeared. Gladioli are out of the race, the great bulk poor in quality and all unsalable. Tritoma is with us again, as brilliant as ever. Smilax continues scarce; all other green plentiful. Some fine large

(Continued on page 382.)

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON September 11			ST. LOUIS September 8			PHILA September 8		
Roses									
Am. Beauty, Fancy and Special	15.00	to	20.00	30.00	to	40.00	20.00	to	25.00
" " Extra	8.00	to	12.00	20.00	to	25.00	12.50	to	15.00
" " No. 1	5.00	to	6.00	15.00	to	18.00	8.00	to	10.00
" " Lower Grades	1.00	to	3.00	3.00	to	8.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" Ordinary	.50	to	2.00	2.00	to	3.00	1.00	to	3.00
Richmond, Hillingdon, Extra	3.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	.50	to	2.00	2.00	to	3.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	6.00	6.00	to	8.00	4.00	to	8.00
" " " Ordinary	50	to	2.00	3.00	to	4.00	1.00	to	3.00
Carnations, Fancy Grade	1.00	to	1.50	2.00	to	3.00	....	to	.....
" Ordinary	.25	to	.50	1.00	to	1.50	1.00	to	1.50
Cattleyas	60.00	to	75.00	40.00	to	50.00	75.00	to	100.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	10.00	to	12.50
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	4.00	1.00	to	4.00
Asters	.35	to	2.00	1.00	to	2.00	.50	to	3.00
Daises	.15	to	.25	1.00	to	2.00	.....	to	.....
Sweet Peas	.15	to	.25	.20	to	.35	.....	to	.....
Gardenias	8 00	to	12.00	.....	to	.....	.....	to	.....
Adiantum	1.00	to	1.25	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 6 1913	First Half of Week beginning Sept. 8 1913
Cattleyas	30.00 to 60.00	30.00 to 75.00
Lilies, Longiflorum	3.00 to 5.00	6.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Gladioli	.50 to 1.50	.50 to 1.50
Asters	.15 to 1.50	.15 to 2.00
Daises	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	5.00 to 8.00	6.00 to 12.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST... NEW YORK CITY
Special Attention to the Shipping Trade

TO GROWERS

Having decided to resume business as a **WHOLESALE FLORIST,** I wish to notify my friends that I have secured the store—**53 West 28th St., New York,** which is well adapted to the requirements of a wholesale florist's business, and is

In the centre of the CUT FLOWER MARKET DISTRICT

Consignments of stock are solicited and consignors are assured that their consignments will be handled with a full knowledge of market conditions and to the best advantage.

An experience extending over 25 years in the cut flower commission business, justifies me in the assertion that all consignments entrusted to me will have the same attention that growers themselves could give to their products in open market, plus the assurance which comes from an intimate knowledge of the trade and trade conditions in New York.

Our facilities are such that consignments, great or small, will be well cared for, and the handling of all flowers will be in the direction of the best returns to be offered by the market.

Correspondence Solicited

JOHN YOUNG

53 West 28th St., - - - New York City

Telephone, 7362 Madison Square

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

Prepared MAGNOLIA Leaves

Red, Bronze and Green, Finest in the Country

Try a Sample Order and be Convinced

$1.25 PER CARTON

N. F. McCARTHY & CO., 112 Arch Street and 31 Otis Street, BOSTON, MASS.

Flower Market Reports

(Continued from page 381)

asters, grown in Winnipeg, Man., Can., were shown in the market. They compared favorably in every way with the best grown here. Among the best this week are the old favorites, Rose King and Violet King, with petals of the quill type, and the large shaggy Krego, both of which are quickly bought up.

NEW YORK

Business begins to show some faint signs of returning animation. It has been the longest, dreariest, dull summer that the flower trade of this city has ever passed through and the revival cannot come too soon, although not much can be hoped for as long as salubrious weather continues and makes auto touring a pleasure. Quality is gradually working up on roses, carnations and some other things. The heavy burden of asters, gladioli and dahlias is in the way, however, of any appreciation in value of indoor material except cattleyas, which are very scarce and longiflorum lilies, which are less overstocked than they have been. Lily of the valley has been a good seller all summer.

ST. LOUIS

The local market was in bad shape during the last week. There was entirely too much stock and the demand was slow, so a great deal of stock had to be dumped. Quality in roses is becoming much better. Carnations are still small and short in stem. The great glut of the week was in asters, gladioli and tuberose stalks and cheap prices prevailed on all these.

(Continued on page 384)

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Sept. 6 1913	First Half of Week beginning Sept. 8 1913
American Beauty, Fancy and Special	10.00 to 15.00	12.00 to 20.00
" " Extra	6.00 to 8.00	0.00 to 10.00
" " No. 1	4.00 to 5.00	3.00 to 5.00
" " Lower Grades	.50 to 2.00	.50 to 2.00
Killarney, Extra	2.00 to 3.00	2.00 to 4.00
" Ordinary	.25 to 1.00	.50 to 1.00
Richmond, Hillingdon, Extra	2.00 to 3.00	2.00 to 4.00
" " Ordinary	.25 to 1.00	.50 to 1.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Carnations, Fancy Grade	.75 to 1.00	.75 to 1.00
" Ordinary	.50 to .75	.50 to .75

WILLIAM F. KASTING CO.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh. Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N..Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.

BOXES—CUT FLOWERS—FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

Dutch Bulbs. All varieties. Prices right. Apply to OTTO HEINECKEN, Whitehall Bldg., 17 Battery Place, New York City.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Lakeview Rose Gardens, Jamestown, N. Y.
Field Grown Carnation Plants.
For page see List of Advertisers.

CARNATIONS FROM FIELD. 500 Queen; 700 Winsor; 300 Perfection; 200 Penn; 100 Lawson; $8.00 per 100. Cash. CHARLES H. GREEN, Spencer, Mass.

FIELD-GROWN CARNATION PLANTS.

	Per 100	Per 1000
The Herald scarlet	$12.00	$100.00
White Wonder	7.00	60.00
White Enchantress, flesh pink	6.00	50.00
Enchantress, flesh pink	6.00	50.00

CHICAGO CARNATION COMPANY,
30 E. Randolph St., Chicago, Ill.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS.

R. Vincent, Jr. & Sons, White Marsh, Md.
Cecil Brown.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 363

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GALVANIZED BUCKETS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLADIOLUS—Continued

We have in the field large stocks of the gladioli mentioned below, on which we will be glad to quote prices of sizes from ⅝ in. to 2 in., fall or spring delivery: B. Hulot, Europa, Faust, Fred Wigman, Halley, Glory, Lily Lehmann, Liebesfeuer, Niagara, Princepine, Princeps, Panama, Peace, Sulphur King, Willy Wigman, Alice Carey, America, Augusta, F. King, Mme. Monmeret, Rosella, Scarsdale, Taconic, Golden Queen, Rochester, La Luna, etc. First come, first served. Last spring we were compelled to refuse late orders. Cut flowers, $3.00 per 100 f. o. b.
RALPH E. HUNTINGTON, Painesville, O.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

William H. Lutton, Jersey City, N. J.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.
For page see List of Advertisers.

Hydrangeas: In pots and tubs, $1.50-$3.50 each; large specimen, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.
Hammond's Grape Dust.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Edward W. Breed, 94 Prescott St., Clinton, Mass.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Eng. Middlesex.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS. Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

A. Henderson & Co.,
369 River St., Chicago, Ill.

POINSETTIAS.

	100	1000
2½-in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY, West Grove, Penna.

RUBBER PLANTS

F. Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Mignonette Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

For List of Advertisers See Page 363

SEEDS—Continued

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

PHOENIX ROEBELENII.

We expect from our collector a fresh harvest. Price on application.
SANDER, BRUGES, BELGIUM, and 258 Broadway, New York, N. Y.

Ginseng Seeds—Fine lot of stratified seeds, ready for planting, $6.00 per lb.; less than a lb., $8.00. Cash. C. K. WHITE, Randolph, Vt.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CEDAR BARK.

S. S. Pennock-Meehan Co., 1608-1620 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

FIELD-GROWN CARNATION PLANTS.

Lakeview Rose Gardens, Jamestown, N. J.
For page see List of Advertisers.

FRUIT TREES FOR FIELD, GARDEN OR ORCHARD HOUSE.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For page see List of Advertisers.

GOLD LETTERS—MOTHER OF PEARL LETTERS.

American Importing Co., 219 Dearborn St., Chicago, Ill.
For page see List of Advertisers.

LARGE EVERGREENS AND DECIDUOUS TREES.

F. E. Couine Nursery Co., Stratford, Conn.
For page see List of Advertisers.

NARCISSUS PAPER WHITE GRANDIFLORA.

A. Henderson & Co., 369 River St., Chicago, Ill.
For page see List of Advertisers.

NEW GERANIUM MARYLAND.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

POINSETTIAS.

Anton Schultheis, 316 19th St., College Point, L. I., N. Y.
For page see List of Advertisers.

RUSCUS AND RUSCUS WREATHS.

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

WHOLESALE FLORIST.

John Young, 53 West 28th St., New York City.
For page see List of Advertisers.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.
Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost. Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

In writing to Advertisers kindly mention Horticulture

PUBLICATIONS RECEIVED.

Annual report of the Park Commissioners of the City of Haverhill, Mass., for the year ending December 31, 1912. For a small city, Haverhill has a nice system of parks and playgrounds. Henry Frost has been superintendent for twenty-two years.

"Tree Talk" is a new quarterly periodical devoted to the planting, care and treatment of trees and landscape forestry in general, published by the Frost & Bartlett Co., Stamford, Conn. No. 1, Vol. 1 is just out. We like its looks and congratulate its publishers.

INCORPORATED.

Chicago, Ill.—The Illinois Seed Co. has increased its capital stock from $25,000 to $150,000.

Chicago, Ill.—Kenilworth Nursery Co.—Incorporators, Louis Wittbold, Carl Schneider and Wm. A. Wilson; capital, $7,000.

Louisville, Ky.—E. G. Reimers & Son Co. Incorporators, Ida L. Reimers, Milton Reimers and George Stark; capital, $5,000.

New Braunfels, Tex.—Comal Springs Nursery. Incorporators, Otto Locke, Herman Locke and Herman Thiel; capital stock, $10,000.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

WELL ROTTED HORSE MANURE
DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY
NEW YORK STABLE MANURE CO.
273 Washington St., - - Jersey City, N. J.



"HAMMOND'S GRAPE DUST"
Used effectively to kill Mildews on Roses and other Plants . . .

Sold by the Seed Dealers.
For pamphlet on Bugs and Blights address
HAMMOND'S PAINT & SLUG SHOT WORKS
BEACON, N. Y. (Fishkill-on-Hudson, N. Y.)

Aphine
The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE
For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE
For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE
For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana
Three percent Nicotine
SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.
All our products are used diluted with water at various strengths, as directed on cans.
FOR SALE BY SEEDSMEN.
Let us quote you our prices to commercial growers in quantity.
Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Green Flies and Black Flies Too Are Easy To Kill With
"TIP-TOP"
BRAND
Tobacco Powder
For fumigating or dusting. $3.00 per bag 100 lbs. Write for free samples.
Money with order.
Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

When writing to advertisers kindly mention HORTICULTURE.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED

Pot plant man of good experience, to take charge of a section of houses to raise stock for retail store trade in a Southern city. Married man preferred. Good opening and a permanent position for the right man. Wages $75.00 per month with free house and coal. Address with references, "J," care HORTICULTURE.

WANTED

A No. 1 pot plant man for section. Must be up-to-date. Address with wages expected, "Y," care HORTICULTURE.

SITUATIONS WANTED

GARDENER—Single (38), wants position on gentleman's place. Extensive experience in greenhouse and outdoor gardening; steady; sober; good references. Address M. S., care HORTICULTURE.

FOR SALE

A RARE OPPORTUNITY.

Owing to death of owner and desire of family to close out estate, a desirable farm, nursery and greenhouse property, 25 miles from Boston, is offered for immediate sale on easy terms. Sixty acres of land, including 12 acres nursery stock and 15 acres of growing crops, peach and apple orchards loaded with fruit. New greenhouse planted to carnations; 12 room dwelling with steam heat and electric lighting; outbuildings, wagons, horses, cattle, poultry, etc. Address "N. M.," care HORTICULTURE.

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

Sept. 8, '13.

Horticulture Pub. Co.:

I am enclosing check for the renewal of my subscription. I might also say that HORTICULTURE, although not nearly the size of the other trade papers, nevertheless covers a big subject well, and is always looked for on Saturday eve. T. J. A.

Penna.

Flower Market Reports

(Continued from page 383)

CINCINNATI Last week proved a fair one. The supply of stock was large but the demand took up a large part of it. The call ran more toward seasonable blooms, as asters, etc., than to roses and the like. The supply of roses continued large with only a small percentage of fancy stock. The good choice blooms sell fairly well while short and medium grades find a rather slow request. The call for Beauties is rather good. Asters are in good supply. Most of the receipts are of a high quality that sell very nicely. Gladioli are on the wane but still have an active demand for the best grades of stock. Dahlias are coming in strong but up to the time of this writing have not acquired any tremendous popularity. Easter lilies are very short of the call for them and if more had been available in the past several days they would have cleaned up easily. A good many rubrum lilies are offered. Smilax is on the short side of the market.

PHILADELPHIA There was a great deal of mortuary work last week, especially among the 400. Many prominent Philadelphians were in the New Haven wreck, and in addition there were quite an unusual number of distinguished citizens who fell before the Great Reaper. This had its effect on the flower market, but there was plenty of stock for all demands. Asters and dahlias are now the prominent features. Gladioli still in fair supply. The first flakes of the chrysanthemum storm now falling—Smith's Advance and Golden Glow, mostly—quality very good. Nothing new in roses or carnations. Orchids still very scarce.

WASHINGTON Business thus far during September has been fairly good, showing an improvement over August. While asters are about at an end, dahlias are beginning to come into the market in such quantities as to make them a wearisome sight. The new crop American Beauty roses are exceptionally fine as to color, foliage and stem. Yellow and white chrysanthemums are quite abundant. Carnations are coming in with stems so short as to make them practically worthless. Orchids are not very plentiful but gardenias have been available throughout the year, something never before accomplished in this city.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6 00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

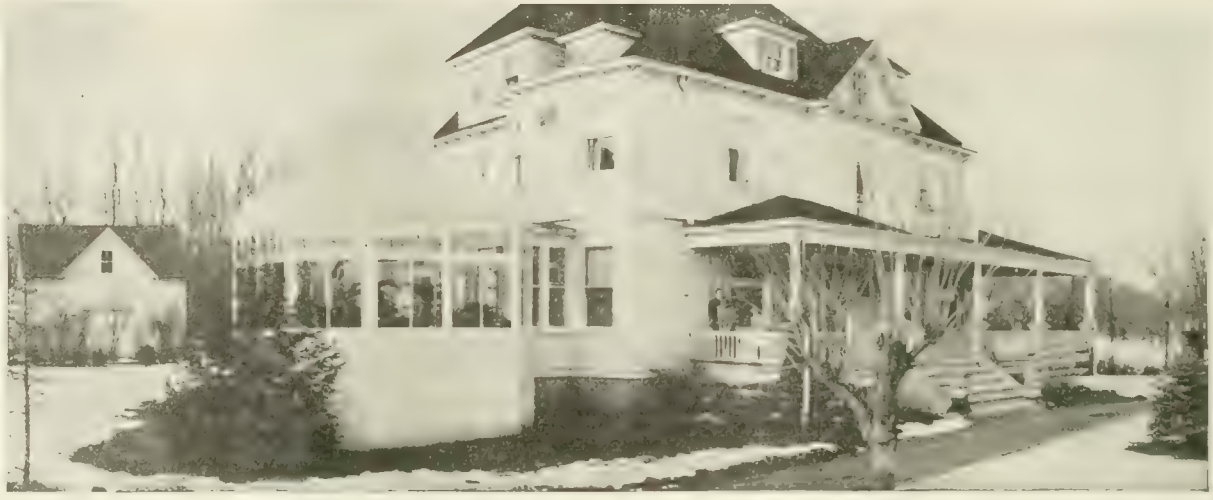
Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

When writing to advertisers kindly mention HORTICULTURE.



DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

The Boston Flower Exchange had its annual auction sale for choice of stalls, on Saturday, Sept. 6, at the new market in Winthrop square, Boston. There was a very large attendance and the sales were eminently satisfactory to the board of directors and everybody else concerned. A very promising outlook for the coming season seems assured.



CONSERVATORY PROBLEMS

EVERY conservatory problem is a different problem, simply because practically every house is different.
The mere fact that they should always be located on the southward side of the house oft-times makes a very arbitrary conditions difficult to overcome.

We have been particularly successful with conservatories as a result no doubt, of our long years of greenhouse building experience.

Send for our catalog which shows many interesting examples of both.

NEW YORK OFFICE
1170 Broadway

Hitchings and Company

PHILADELPHIA OFFICE
Pennsylvania Bldg.
15th and Chestnut Sts.

FACTORY, Elizabeth, N. J.

GREENHOUSES BUILDING OR CONTEMPLATED.

Troy, Mo.—Homer Reed, range of houses.

Ottawa, Ill.—Chas. Cole, two houses, 28 x 140.

Salem, Ohio—V. A. Covgill, range of houses.

Evanston, Ind.—P. G. Leidier, range of five houses.

Sedalia, Mo.—State Fair Floral Co., range of houses.

Smith's Ferry, Mass.—Jellivan Bros., house 28 x 150 feet.

Hagerstown, Md.—Wm. Bester, carnation house, 30 x 150.

Crown Point, Ind.—Crown Point Floral Co., two houses.

West Newbury, Mass.—C. B. Morse, Main street, one house.

Chicago, Ill.—Jos. Winken, 1504 Ridge avenue, one house.

Winchendon, Mass.—Whittemore & Co., River street, one house.

Miles City, Mont.—Miles City Greenhouses, vegetable house, 34 x 100 feet.

PATENTS GRANTED.

1,071,795. Fertilizer. Bruno Reichelt, Newark, N. J.

Newton Mass.—E. H. Corey, Jr., is the latest addition to the greenhouse industry here.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

It's a KinG
Improved Flat Rafter Iron Frame
GREENHOUSE
With ⅝ inch instead of ½-inch Rafters so we can reduce the depth from 3½ and 4 inches to 3 inches
Every Bit of Sunlight Means Money to You.
Send for Bulletin No 46 and be convinced
KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N. Y.
All the Sunlight We Pay Heuses

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us
1000, 75c postpaid. Samples free
HENRY A. DREER,
714 Chestnut Street, Philadelphia.
FULL SIZE No. 2

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



ERECTED AT IRVINGTON-ON-HUDSON, NEW YORK

When it comes down to real facts there is no question about superiority of the **LUTTON HOUSE.** Here is a case where the Owner was simply tired of the appearance of the greenhouse which we removed and replaced at the left. In its place we erected our modern house; now **the Owner can see his favorite roses blooming inside the house from his library window.** You can not talk upon any other construction to this owner as he thought he was getting the best when he built the old houses some few years ago. We have many more convincing arguments like this to place before you.

WILLIAM H. LUTTON, - JERSEY CITY, N. J.

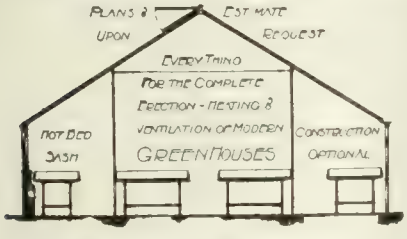
CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1389-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

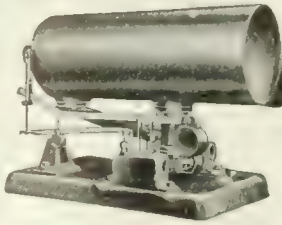


You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.



CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N.J.**

Two Q's, Or The Quality Question. An Oil Sale With A Greenhouse Moral



YESTERDAY, I was waiting for a train down at Glen Cove, and to kill time, strolled into a nearby garage and sat down to smoke with Joe, the boss. As the first ashes were just about to drop off our cigars, in comes a hustling, bustling salesman and strikes Joe for an order of oil.

First thing that salesman did, was to try and find out what Joe usually paid for his oil—then he simply made a price a few cents under it.

Price, price, price was his entire talk. Quality seemed an entirely secondary matter.

Joe didn't buy.

We were just in the midst of a discussion on tires when another oil salesman came in leisurely. First crack out of the box he said, "I understand you have 10 cars. You must use about so many gallons (forgot the amount) of oil a year don't you?" "Yes."

"Well, you use too much."

Then followed a discussion of oil values and the comparative oiling and lasting qualities of various grades.

Numerous tests with prominent cars were mentioned and accurate facts stated as to the actual results. A recent engine endurance run of 300 hours made by one of them without stopping, was referred to in which this salesman's highest grade oil had been used. After this quality talk—then and not till then, was price mentioned.

It had all been a question of what his oils would do; their goodness—their quality.

Joe bought two barrels and willingly paid ten cents more a gallon than he ever had before.

Why did he do it? Simply because that salesman had shown him that cheaper oils cost more, because you have to use more, and results are less satisfactory.

"**When quality** goes down, to keep things balanced, **quantity** must go up. Don't forget that.

As I sat there listening to that most convincing sales talk, it occurred to me how many growers are today buying their greenhouses entirely on a price basis. For instance, this Spring we lost an order for two big western houses, just because our price was a few hundred dollars higher.

Price sold that order—not quality.

The other day the sales manager and I dropped around to see the houses. It wasn't a difficult matter to figure the amount of iron in the houses and we soon found out that the actual weight of the iron frames was a third less than we would think of putting in our houses—in spite of the fact that this concern's houses have frequently blown down. Our Iron Frame ones **never have.**

Knowing the contract price for the houses, we figured it out that Lord & Burnham could have furnished those same materials for several hundred dollars less.

Our price was based on one thing—our competitor's was for entirely different proposition.

That man had actually paid a good round price for those houses, and had allowed himself to be jollied into thinking he had a bargain.

It all boils right down to the fact; that you pretty generally get what you pay for, and no more.

With the two big factories we have, the thousands and thousands of dollars of work we turn out, and our years of experience in building greenhouses and figuring the actual costs; if, with such a tremendous advantage over other concerns, they offer to sell you a cheaper house, it's because of either of two reasons; the materials are decidedly poorer or there is a good deal less iron in the framework.

There is absolutely no other way you can account for it.

For the kind and quality of house Lord & Burnham build—no concern in the country can build it for any less and make a dollar.

Of course, we make money—that's why we can make so good a house. If you can't make money—you can't make good. You know that!

When you compare our figures with the other fellow's—bear in mind the two oil salesmen—how one sold any old quality at any old price—and how the other, sold the one quality at the one price.

Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. SEPTEMBER 20, 1913 No. 12



BUDDLEIA DAVIDII
(Syn. B. variabilis.)

Courtesy Mt. Desert Nurseries

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

MIGNONETTE

Farquhar's Universal

Sow Now For Fall Crop



One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

Christmas Peppers

New Cluster Pepper, Branching New Cluster Pepper, Celestial Peppers.
Strong plants with fruit, from 4½ in. pots, $1.25 per dozen, $10.00 per 100.
Primroses, Obconica, 2½-in. pots, the very best strains, strong plants, $3.00 per 100, $25.00 per 1000.
Rubber Plants, strong stock from 6-in. pots 20 to 24 inches high, at $6.00 per doz.
Table Ferns, fine plants from 2½ inch pots, best assortment, $3.00 per 100; $25.00 per 1000
500 or more at 1000 rate. Cash with order.

Frank Oechslin, 4911 Quincy St. CHICAGO

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case).....	$1.25	$8.50
14 ctm. bulbs (1000 to case).....	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Poinsettia Pulcherrima

Nice strong plants from 2½-in. pots, $5.00 per 100; $45.00 per 1000.

ANTON SCHULTHEIS
316 19th Street, COLLEGE POINT, L. I., N. Y.

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent. off Cash with order.

1 bale.....	$3.50	5 bales.....	$15.00
2 bales.....	6.50	10 bales.....	29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED.
Julius Roehrs Co.
Rutherford, N. J.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721 NEW YORK CITY

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL, Summit N. J.,

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.

1 bale.....	$3.80	10 bales, each..	$3.40
5 bales, each...	3.60	25 bales, each..	3.20

Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.
J. H. SPRAGUE, Barnegat, N. J.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

GERANIUMS

We have 300,000 in 3-inch pots ready for immediate shipment, at $3.00 per 100, $25.00 per 1000, in the best collection of Standard Varieties, Double and Single, in the country.

Will have 200,000 in 2-inch pots ready October 1st, at $2.00 per 100, $18 50 per 1000, and an immense stock to follow.

LET US BOOK YOUR ORDER FOR FUTURE SHIPMENT

We are booking orders for Dahlias and Cannas, for the coming Fall and Winter delivery. *Send for list if interested.*

R. VINCENT, JR. & SONS CO. . . White Marsh, Maryland

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. 2890 Bedford **BROOKLYN, N. Y.**

LIST OF ADVERTISERS

Page
Advance Co.....421
Albany Cut Flower Ex.....414
Allen, J. K.....414
Am. Importing Co. 411
Anderson, S. A..409
Aphine Mfg. Co.420
Aschmann, G....394
Atlanta Florist Co. 412
Ayres Co., S. Bryson 407
Badgley, Reidel & Meyer.....414
Balsley, Harry..421
Barnard, W. W. Co. 407
Barrows & Son..396
Bayersdorfer, H. & Co. 411
Bay State Nurseries 395
Bloomingdale's .408
Bobbink & Atkins 404
Boddington, A. T.405
Bolgiano & Son, J. 407
Boston Florist Letter Co.....412
Breck, J. & Son.407
Breck Robinson Nurseries 404
Breitmeyer's, J. Sons 408
Bryan, Alonzo J.394
Burnett Bros....407
Burpee, W. A. & Co. 407
California Florist 409
California Seed Growers' Asso.407

Page
Carbone 409
Chicago Carnation Co.....412
Childs, John Lewis 396
Clarke's D. Sons 408
Clark, Everett B. Seed Co.....407
Conine, F. E. Nursery Co....394
Cooke, Geo. H...410
Cowee, W. J.....414
Craig, Robt. Co.394
Dards 408
Dawson, H. S...395
Detroit Flower Pot Co.....421
Dorner & Sons Co. 396
Dreer, H. A..... 421-422
Dunlop, John H.409
Dysart, R. J....415
Eastern Nurseries 395
Edwards Folding Box Co.....412
Elliott's, W. & Sons 407
Eppstein, Julius.409
Ernest, W. H....421
Esler, J. G.....421
Eyres 408
Fairfield Landscape & Nurseries Co.....394
Farquhar, R. & J. & Co. 394
Ford, W. P.....414
Forrest, Frank H. 409
Fottler, Fiske, Rawson Co. ..407

Page
Framingham Nurseries 404
Franklin Davis Nursery Co....404
Froment, H. E..414

Galvin, Thos. F..409
Gasser, J. M. Co.409
Goodsell, P. H..404
Grey, T. J. Co..407
Gude Bros. Co..408

Hail Association.421
Hall & Robinson.409
Hammond Paint and Slug Shot Works 420
Hart, Geo. B.....415
Heacock, Jos.....394
Heinecken, Otto..407
Henderson, A....394
Hess & Swoboda.408
Hews, A. H. & Co. 421
Hill, E. G. Co...415
Holland Nurseries 396
Hilfinger Bros...421
Holm & Olson...408
Hudson Carbon Co. 420
Industry Moss & Peat Co.....394
Interstate Tobacco Co.....420
Johnson, J. Oliver 407
Johnston Bros...409
Jones, Robert Ross 421

Kasting, W. F. Co. 415
Keller, J. B. Sons 408
Kervan Co.....414

Page
King Construction Co.....422
Kramer, F. H...409
Kroeschell Bros.421
Kuebler, W. H..414

Lager & Hurrell.394
Lemon Oil Co...420
Leonard Seed Co.407
Leuthy, A. & Co.396
Loechner & Co..394
Lord & Burnham Co. 423

MacMulkin, E...409
May & Co., L. L.409
McConnell, Alex..408
McCarthy, N. F. Co. 412-415
McCray Refrigerator Co.....411
McHutchison & Co. 396
McKenna & Sons, P. 409
McKenzie, John..395
McManus, Jas....414
Metropolitan Material Co.....421
Michell's Seed House 406
Michigan Cut Flower Ex.....412
Millang, Chas....414
Miller, E. S.....407
Montreal Floral Exchange 414
Moore, Hentz & Nash 414
Murray, Samuel.408

Niessen, Leo Co.412
National Nurseryman 394
N. Y Stable Manure Co.....420

Page
Oechslin, Frank.394
Ouwerkerk, P...396

Park Floral Co..408
Palmer, W. J. & Son 408
Parshelsky Bros.422
Penn, the Florist.409
Pennock - Meehan Co. 413
Pierce Co., F. O.422
Pierson, A. N...396
Pierson, F. R. Co.395
Pierson U - Bar Co. 423
Plant Food Co., 20th Century...420
Poehlmann Bros. Co. 412
Pollworth, C. C.408
Pulverized Manure Co.....420

Quaker City Machine Co.....422

Reed & Keller...414
Reinberg, Peter.412
Rice, M. Co.....409
Robinson Co., H. M 414
Roehrs, J. Co...394
Roland, Thomas.396
Rolker, A. & Sons 396-421
Rosery, The 408

Sander & Son...394
Scott, John.....395
Schling, Max....409
Schultheis, Anton 394
Sheridan, W. F.414
Sharp, Partridge & Co.....422
Siebrecht, Geo. C.414

Page
Siggers & Siggers 422
Skidelsky, S. S. & Co.....407
Smith, P. J.....414
Smith & Co., E. D. 404
Smith, W. & T. Co. 396
Smyth, Wm. J..408
Sprague, J. H...394
Stearns, A. T. Lumber Co....421
Syracuse Pottery Co. 421

Totty, Chas. H..396
Thorburn, J. M. & Co.....407
Traendly & Schenck 414

Valentine, J. A..408
Van Assche, F...422
Vincent, R., Jr., & Sons Co....395

Wants, For Sale.421
Ward, R M & Co. 396
Weber, F. C.....409
Weeber & Don...407
Welch Bros.....412
Whittier & Co., W. B. 404
Wilson, Robt. G.408
Wood Bros. 396
Woodrow & Marketos 414

Young, John.....414
Young & Nugent.408

Zangen, O. V....406
Zvolanek, Ant. C.407

For Buyers' Directory and Ready Reference Guide

See Pages 416, 417, 418, 419

LILY BULBS

Horseshoe Brand lily bulbs are produced and distributed on a broad principle that is very easy to understand.

The efficiency of every bulb depends upon its power to produce flowers under varying and often trying conditions.

The moment a lily bulb loses its strength it becomes useless. This means not alone the loss of a bulb but the loss in expense of production, and the cost of replacement.

The risk attached to lily bulbs originates from nature and is beyond the control of man, so the best you can do is to minimize it, by securing bulbs which will give the best average in flowering results.

A lily bulb of doubtful origin, cheap in price and unknown in quality, is not only a bad investment in itself, but it cripples results of far more value than the cost of several bulbs.

Horseshoe Brand Giganteum have proved their average reliability ever since they have been marketed. Nothing is left undone that man can do to improve them.

An excellent way to get an idea of their value as compared with other brands is to witness the deep satisfaction of those who use them here and abroad; and especially of the largest growers who pay strict attention to results.

Eighty-five per cent of the large growers use Horseshoe Brand lily bulbs and most large growers use them entirely. There's a reason.

Cold Storage Bulbs always on Hand

NOT HOW CHEAP — BUT HOW GOOD

CATALOG SENT ON REQUEST

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

CHARLES H. TOTTY

CARNATIONS AND CHRYSANTHEMUMS

MADISON, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Cattleyas

All summer flowering cattleyas should have a good period of rest before they are given any new compost. When their new growth just begins pushing through, then is the best time for any repotting. Taken in hand at this stage they soon become re-established. Use either clear osmunda fibre, or live sphagnum moss in equal parts with the osmunda fibre, as both are good. Insure good perfect drainage by giving baskets or pans half their depth of clean crocks and charcoal. After they



Courtesy of W. A. Manda

SPECIMEN CATTLEYA MOSSIAE

are potted place in a shady part of house and keep rather close for a short time. Maintain sufficient moisture in the air by damping down the benches and walks two or three times a day. Great care in watering will be necessary until the plants become well established. When they have taken hold gradually reduce the shading until by the end of October they will be under clear glass. Syringe on fine days during the morning and keep a night temperature of about 55 degrees.

Care of Eucharis

These plants under favorable conditions produce several crops of bloom in a season. There is no doubt as to the great value of eucharis as a producer of high grade and high priced cut material. All plants that have finished their flowering should be given a liberal amount of water at the roots with plenty of moisture in the atmosphere until every new leaf has reached its full development. When this growth is completed they should have a period of from four to six weeks' rest by gradually withholding water until the leaves begin to flag slightly when they should have just enough water to freshen them up again. This treatment should be followed up for a month or six weeks, but be sure to give them enough water to keep the leaves plump or otherwise they will be injured. Now is a good time to make a new planting of eucharis. Plants that are in 3 or 4-inch pots will make fine stock. For a compost use clean sod soil, not too old, and well decomposed cow manure in equal parts.

Cyclamen

Plants intended for Christmas trade will require plenty of attention from this out. Give them a bench near the glass and keep reducing your shading gradually from now on. Watch the pots so that they will not become too dry or too wet. It is not supposed that the soil in your pots is to be soaking wet continuously or on the other hand to become so dry as to cause the plants to wilt. Where the pots are nicely filled with roots they will take some liquid manure once a week now, and later on twice a week. When the nights make it possible keep the temperature at about 55 degrees and from 10 to 15 degrees higher on all bright days.

Hydrangeas

The pot-grown hydrangeas are those which we must depend upon for Easter, 1914. Their growth will now be practically completed, but in order to assist in ripening the wood the water supply should be gradually reduced. Stock grown in the field should be lifted any time about the end of this month, care being taken to preserve as many of the roots as possible. They can be potted in any good rose soil and given a thorough soaking, after which give just enough water so they will become well established in their pots without starting the buds, and then they can be given the same treatment as for the pot-grown ones. They can be kept outdoors until heavy frost is threatened when they should be placed under protection of some kind such as a deep frame.

Solanums

Plants that have been in the field during the summer and have had proper care should by this time have grown into bushy plants with fine foliage and berries. Now is a good time to lift them. They can be potted into 5 or 6-inch pots which will make very desirable sizes. Give them a compost of fibrous loam three parts, and well-rotten manure one part. In order to do well and color up their berries they will need good drainage, so see that every pot is supplied with plenty of crocks. For a week after they are potted they should be placed on a bench where they can have some shade and by keeping them moist at the roots with two or three syringings a day

they will soon become established when they should have the full sun. Every once in a while go over them and give more room between the plants and turn them around. Give plenty of ventilation whenever possible and keep a temperature of about 55 degrees at night.

Winter Acacias and Genistas

Acacias are usually in the best demand around Easter time, so it will be necessary to give them a cool house. Any house that stands anywhere around 40 degrees at night will do very well. Give them careful waterings during the winter and they should come through in good shape. Where genistas are wanted for Easter you can give them a further clipping back. These can be kept just clear of freezing and they will be all right for Easter.

Mr. Farrell's next notes will be on the following: Care of Carnations; Forcing Spanish Iris; Hardy Stock for Spring Sales; Poinsettias in Pans; Timely Propagating; Oxalis.

BUDDLEIA DAVIDII

(Syn. B. variabilis)

During the opening months of the year 1910 I was privileged to contribute to the columns of HORTICULTURE a series of articles entitled "Plant Novelties from China." It is pleasing to note that many of the novelties there discussed are today to be found growing in the majority of the leading gardens, parks and nurseries of eastern North America and of the Pacific slope. In the article mentioned the subject of this note is dealt with on page 146, Vol. XI. (Jan. 29, 1910). At the exhibition which opened in the Massachusetts Horticultural Society Hall on Friday, 12th inst., noteworthy examples of this Buddleia appeared in the stands of several exhibitors. Undoubtedly this shrub is destined to become in the immediate future a popular garden plant and the explanation of this is self-evident. The plant grows freely in any ordinary garden soil, reuires very little attention, is free from pests, and produces a wealth of delightfully fragrant flowers at a season when the blossoms on nearly every other shrub are past. The color of the flower is distinct, being most attractive, shading from soft mauve to rich violet-purple. The plant is hardier than anticipated, safely withstanding the winters as far north as Bar Harbor, Maine. True, with zero weather, it kills to the ground, but this merely obviates the necessity of severe pruning which otherwise is absolutely essential. Cuttings of half (or three parts) ripe wood inserted now in pots in gentle heat, root readily, and furnish flowering plants for the next season if potted off singly and planted out the end of May.

The specific name *variabilis* by which this shrub is best known, very appropriately discloses the character of the plant. In habit, time of flowering, size and color of the flower, it is exceedingly variable and of the many forms met with the following are the most distinct:

"Veitchiana":—Habit erect, shoots quadrangular, panicle fairly dense, flowers bright mauve with an orange-yellow throat.

"Superba":—Habit and shoots as in foregoing, foliage relatively thick, slightly wrinkled above, panicle densely crowded with pale rose-purple flowers.

"Magnifica":—Habit erect-spreading, shoots quadrangular, panicle up to 30 inches long, somewhat flattened-round, flowers rich violet-purple with margins of petals reflexed.

"Wilsonii":—Habit erect-spreading, shoots cylindrical, laxly arching, panicles pendulous up to 40 inches long, less densely crowded with flowers which are pale rose with an orange colored throat and larger than in other varieties.

The variety Veitchiana is the first to open its flowers, this taking place about the end of July; the others follow in succession and continue the season up to the time frosts appear.

This Buddleia and its varieties are riverside shrubs in central and western China where they are natives, and in consequence require an abundance of water during the growing and flowering season. In our gardens and parks these plants may be employed as ornamental shrubs in the border or as bedding plants for midsummer and autumn work. For the brook and pondside they are delightful subjects. Planted in such position in combination with *Sorbaria arborea* and its varieties, which blossom at the same season and have arching shoots, pinnate leaves and large paniculate trusses of pure white flowers, the effect is everything the most [illegible] for.

E. H. Wilson.

Arnold Arboretum.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Black Spot

As the season advances, the danger from this disease will be greater; consequently, much greater care will have to be taken towards its prevention, for should spot be allowed to gain a foothold it will require heroic efforts on the part of the grower to rid the plants of it. And the plants will receive a setback, no matter how carefully the cure may be applied. Sometimes, as it often happens, the cause for spot may be traced to the fact that the plants receive much more water than they should, after cutting heavily. It is much better to keep them on the dry side a least bit, thus allowing no surplus moisture to accumulate in the soil. Not that we would recommend drying the plants. This would be ruinous. Then watch carefully for the appearance of spot. Pick off all affected leaves and burn them at once. Leaves that are touching the surface of the soil in the bench will usually be the very first to become diseased, therefore it is well to keep these picked off, as we have time and time again suggested. Proper ventilation will also be a great preventive, for when the plants are chilled mornings with damp cold air that should be passing out through the partly opened ventilator, and a little steam to help it move, they cannot be expected to be in the best of health. Another great trouble is that the plants remain wet over night, because they had not been shook after syringing. This is probably the greatest cause. Always after the plants have been syringed, shake them well so that all the water that may be standing on the foliage will be dislodged. Then the last thing at night it is well to blow a little air-slacked lime underneath the plants. This lime should be perfectly dry, or it will not be as effective as should be. Do not use too much strength in blowing the lime. The ideal way is to blow the lime just under the plants and let it slowly rise among them. If the bellows are worked too hard the lime will be blown all across the benches and out into the walk on the other side, where it will have but little effect on the dampness of the house.

Timing the Crops

It is not a very good policy to force the plants very much at this time of the year. We do, however, try to make the plants give their first crop before the chrysanthemums come flooding the markets. Sometimes the prices received for the roses in the chrysanthemum season will be greater than those received earlier, but often they will be less, and we have found it pays to be a little off crop while the chrysanthemums are in. Then, too, we are more sure of a winter supply, for the roses have more chance to come back than they would if the first crop is cut off late in the fall. With Beauties, it is very difficult to arrange the crops as you would Killarneys or other roses, for they will not behave themselves as they should, and will flower when they feel like it. We never try to dictate to the plants. Just simply give them ideal conditions for growing and then let them do the rest. Above all things we would never advise anyone to try to hold the Beauty back. Once they receive a check of any kind it will take them a long time to pick up again.

Tying

This should not be neglected the least bit as all the shoots that are not tied and are allowed to lie around among the other tied growths, are very likely to go blind and will be of no use to the plant besides being a loss to the grower. Keep right after the tying, especially among the Beauty plants. Killarneys and such require but little attention in this respect and the cost of production is greatly reduced thereby. But with the Beauties it is different and once they are allowed to lie around they will always show the effect of this. Of course we do not mean the time they are set out, for then it does them good, but after they reach the second and the third wire things are different. By keeping right after them all the time it is a very simple matter to keep them straight, but after they have been allowed to go their own way for a while, it will be quite a task to bring them around to something like system again.

Tying and Red Spider

These are so different from one another that it will seem strange at first to see the two subjects linked together. And yet it will be found that tying when properly done will be a great help in keeping the red spider out. Do not bunch the plants up when tying, but separate them as much as possible, thus giving every shoot all the chance in the world to get a cleansing bath every time the hose is brought around. This will also have its effect on growth, as will be noticed, for the light will be well distributed and the plants will all have an equal show. Black spot will also be prevented in a way, for there will be no place for the moisture to condense and start it.

Liquid Manure

Before many days go by the liquid manure outfit will be put into use again, and therefore it would be a very good idea to see that all is in perfect working order and that a good supply of manure and stuff that is to be used in making it is on hand, where it can be gotten on a moment's notice. A very good plan is to have a suitable sized shed built over the tank, and keep all the materials, fertilizers, etc., right there. It is an easy matter then to see what there is on hand and no running all over the place will be necessary to disclose this information. Keep a liberal supply of plant food on hand all the time. It pays in the long run.

HORTICULTURE

VOL. XVIII SEPTEMBER 20, 1913 NO. 12

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

COVER ILLUSTRATION—Buddleia Davidii. Page

NOTES ON CULTURE OF FLORISTS' STOCK:
Cattleyas, Illustrated—Care of Eucharis—Cyclamen—Hydrangeas—Solanums—Winter Acacias and Genistas—*John J. M. Farrell*.....397 398

BUDDLEIA DAVIDII—*E. H. Wilson*..... 398

ROSE GROWING UNDER GLASS—Black Spot—Timing the Crops—Tying—Tying and Red Spider—Liquid Manure—*Arthur C. Ruzicka*..... 399

THE RELATION OF LIGHT TO GREENHOUSE CULTURE—*Dr. George E. Stone*..... 401

ODONTIODA CHARLESWORTHII—Illustrated..... 401

THE MUSK PLANT ODOR..... 401

CLUBS AND SOCIETIES—New York State Federation of Floral Clubs—New Jersey Floricultural Society—St. Louis Florist Club..... 402

Gardeners' and Florists' Club of Boston—American Rose Society—Westchester and Fairfield Horticultural Society—Nassau County Horticultural Society—A Conference at Lake Minnetonka, Illustration.... 403

A Word of Thanks and Appreciation—Medford Horticultural Society—Connecticut Horticultural Society.. 404

Dahlia and Fruit Exhibition at Boston—Dahlia and Hardy Perennial Show at Philadelphia—Club and Society Notes..... 405

SEED TRADE—American Seed Trade Association—Notes..... 406

WALTER MOTT'S NOTES BY THE WAY..... 406

DURING RECESS—Joseph Breck & Son's Employees.. 406

OF INTEREST TO RETAIL FLORISTS:
Steamer Departures..... 408
Flowers by Telegraph—New Flower Stores..... 409

OBITUARY—James Bishop—William Paul Bender—M. E. Pierce—John Chambers—Constant Ponnet.... 411

FLOWER MARKET REPORTS:
Boston, Chicago, Cincinnati..... 413
New York, Philadelphia, St. Louis, Washington..... 415

MISCELLANEOUS:
The Golden Rod, Poetry..... 401
"Crown Gall" on Marguerites—*Vernon T. Sherwood*.. 401
Catalogues Received..... 406
News Notes..... 406
Incorporated..... 409
Chicago Notes—St. Louis Notes..... 410
View in Rose Garden of Mrs. A. W. Tedcastle, Milton, Mass., Illustrated..... 410
Publications Received..... 411
Cincinnati Notes..... 411
Philadelphia Notes—Personal..... 415
Greenhouses Building or Contemplated..... 422

A good motto

That little remark in Mr. Ruzicka's rose notes this week, "We never try to dictate to the plants," has a very suggestive ring. "Just simply give them ideal conditions and then let them do the rest" tells the route to success in a very few words. It is probable that more lost crops have been ruined by more hopes blasted by reckless "dictation" than by all other causes combined. Some varieties, like some men, will stand a deal more of it without hitting back, but they all have their limit of endurance and the successful grower is the one who always keeps a long distance this side of the limit.

Missionaries for the trade

It is gratifying to note in the columns of the daily papers the rapidly increasing number of local flower shows being held here, there and everywhere at this season of the year. It all denotes a growing interest in flower gardening which cannot but result in larger demands on the gardener, florist, seedsman and nurseryman. We do not think the trade at large fully realize how much this means to them or to what extent they might severally develop their business by extending every possible encouragement to these affairs even though they may be very insignificant and even primitive from the standpoint of the professional. Such organizations as the Medford Horticultural Society whose recent exhibition is described in this paper, the Houghton Horticultural Society, the Andover (Mass.) Horticultural Society, the Home and School Garden Association of Methuen, Mass., the Flower Civic Association of Ridley Park, Pa., the Greystone (R. I.) Horticultural Society, scores of Village Improvement Societies and similar enterprises to interest school children and encourage rivalry in home gardening—all these are really doing splendid missionary work for the florist and it is the part of wisdom to propagate and nurture them in every way possible.

The convention's aftermath

The Minneapolis Tribune for August 28, contained the following editorial:

"Hundreds of people have visited the exhibition flower garden near the national guard armory, planted by Theodore Wirth, superintendent of parks, with the assistance of the Society of American Florists. The garden represents the cream of the product of florists' gardens all over America, and forms, at the present height of its beauty, a notable demonstration school to amateur gardeners. Among visitors to the garden have been many men and women who in the last few years have become so interested in floriculture as to make many portions of Minneapolis beauty spots of bloom where once there were bare lawns or even desert tracts that offended the eye. These visitors, for the most part experimenters and novices in floriculture, have gained more flower knowledge from their visit to this beautiful garden than ever could have been absorbed from books or seed catalogues. They have gone to the florists' garden not once but half a dozen times.

"So The Tribune offers the suggestion to the Minneapolis park board that it make this remarkable school of floriculture an established feature of its work for beautifying the city. The expense of maintaining such a garden, with attendant instruction in planting, cultivating and care by an experienced florist, would be a small item when the great benefits are considered. The garden spot itself is admirably located for the convenience of the whole city. The start has been made, and The Tribune suggests that at its meeting, Wednesday, Sept. 3, the park board give this school of floriculture a place in its program for next year and the years to come."

This is certainly a high tribute to the S. A. F., an endorsement of its work and influence as appreciative as it is rare. When the Society shall have reached that stage when it will be in order to ask Congress to extend its privileges under the national charter, testimonials such as the foregoing will mean something. It must be a matter of great pride to every loyal earnest member of the S. A. F. to feel that his Society has left in Minneapolis so sweet and lasting a remembrance of its visit and so potent an influence for the advancement of horticulture in the Northwest.

THE RELATION OF LIGHT TO GREENHOUSE CULTURE.

Bulletin 144 of the Massachusetts Agricultural Experiment Station is a very interesting 40-page pamphlet by Dr. George E. Stone on "The Relation of Light to Greenhouse Culture." The "summary" on the concluding pages of the bulletin is as follows:

The experiments described in this bulletin not only have a bearing on the physiology of crops, but also on greenhouse construction and management.

Light has an important influence on the configuration of plants. Since most of the plant energy is derived from the air through sunlight, the optimum light conditions are important, and there is a marked difference in plants as regards their light requirements.

During the short winter days many greenhouse crops do not obtain sufficient light, therefore any factor in greenhouse construction which will increase the amount of light is important.

Lack of light is responsible for many greenhouse diseases; on the other hand, too intense light may prove harmful in some instances.

The old type of greenhouse was crude in construction, especially as regards light. The modern tendency is to build larger houses, to use stronger material casting less shade, and larger and better quality glass.

Large houses can be constructed relatively more cheaply and managed more easily because there is a less rapid change of atmospheric conditions, etc., which helps to eliminate many greenhouse troubles.

Morning light is more intense than afternoon light, our experiments showing a difference of 10%, and ranging as high as 30% for some months. This difference is not constant from day to day, from month to month or from year to year.

The difference between morning and afternoon light has a practical bearing on the location of greenhouses as regards points of compass.

The location of a house as regards points of the compass has a bearing on the practice of spraying plants, the yield of the crop, and to a certain extent on fungous infection.

To obtain the best results in a house running east and west, the house should be from 15 to 30° north of east. This enables the plant to take advantage of the more intense morning light and the crop can be syringed with less danger from infection.

The difference in morning and afternoon light may be shown by various chemical methods, as well as by the growth of trees, and of crops of cucumbers in north and south houses. Other things being equal, a crop will show greater development on an east than a west exposure.

There is considerable difference in the light transmitting properties of glass. Second quality, double thick greenhouse glass transmits 18% less than No. 1, double thick, and the third quality double thick transmits 33% less than first quality and 15% less than second quality.

An irregular surface, bubbles, etc., in glass act as lenses and affect the even diffusion of light.

New glass is slightly superior to used glass. The deterioriation from dirt and other factors is much less than 1% per annum.

The more nearly the angle of the roof coincides with the right angle of the sun's rays the more light is transmitted.

Relatively steep roofs are superior to flat roofs for transmitting light. Records made in February show that a house with a roof angle of 46° gave 18% more light than one with a 32° angle roof.

The reflection of light from surfaces varies greatly. In our experiments we found aluminum bronze to constitute the best reflector of light.

The practice of lapping glass causes some loss of light, an average of 11% in our tests.

There appear to be no important differences in the light in a greenhouse at different distances from the glass, practically the same light being obtained at 5 feet as at 30 feet. The light to be had directly under the glass, however, varies in intensity owing to the irregularity of the surface.

The loss of light from glass may vary from 13 to 36% or more, depending on the quality and condition of the glass, and many other factors.

Double glazed houses are much inferior to those glazed with a single layer of glass.

ODONTIODA CHARLESWORTHII.

This is one of the bi-generic hybrids which created a decided sensation in England when it first appeared about five years ago. Its parents are Cochlioda Noezliana and Odontoglossum Harryanum. The color of the flowers is scarlet red. Hybridists have been busy with this phenomenal flower, crossing it back with one of its parents, Odontoglossum Harryanum, hoping to get more of the character of the latter into the color of the progeny. Odontioda Brewii is one of these crosses which has flowered within a few weeks for the first time, but, although it shows some most extraordinary



ODONTIODA CHARLESWORTHII.

characteristics the solid unbroken coloring is again perpetuated, contrary to all preconception of what might be expected.

THE GOLDEN ROD.

This flower is fuller of the sun
  Than any our pale north can show;
It has the heart of August won,
  And scatters wide the warmth and glow
Kindled at summer's midnoon blaze,
  Where gentians of September bloom,
Along October's leaf-strewn ways
  And through November's paths of gloom.

Herald of autumn's reign, it sets
  Gay bonfires blazing round the fields;
Rich autumn pays in gold his debts
  For tenancy that summer yields.
Beauty's slow harvest now comes on,
  And promise with fulfillment won;
The heart's vast hope does but begin,
  Filled with ripe seeds of sweetness gone.

Because its myriad glimmering plumes
  Like a great army's stir and wave;
Because its gold in billows blooms
  The poor man's barren walks to lave;
Because its sun-shaped blossoms show
  How souls receive the light of God,
And unto earth give back that glow,—
  I thank Him for the golden-rod.

Selected

THE MUSK PLANT ODOR.

Editor HORTICULTURE:

Dear Sir:—I believe Mimulus moschatus, in its natural location, is always found on the borders of sheltered brooks and edges of moist ground. In a damp, close greenhouse the plant has quite a strong odor like musk. I have noticed when the ventilators were raised, on a clear, bright day, the odor, which is very volatile, would disappear. When the plant is near an open door, the odor is scarcely perceptible.

FRANK BUFFINGTON.

Fall River, Mass.

Editor HORTICULTURE:

There can be but little doubt that the musk plant, Mimulus moschatus, has lost its scent in the majority of instances, and it is only by careful selection of the most odoriferous plants that a desirable strain can be had. In America, so far as my knowledge goes, there is not a large sale for this plant in which case there would not be enough plants in one person's hands to select from. Twenty-five years ago I remember that a five or six-inch plant was sufficient to scent a whole room and nearly a decade later when I assisted to grow them by the thousands for the London market, we found that we had to keep only the scented ones for stock plants, and to propagate from cuttings only, and not from seed.

In this country I have observed that during the morning early in the summer the plants give the strongest odor and revel in a moist and shady position, but later when the weather gets too hot one has to smell at least twice to catch any odor at all. Harrison's variety which I have not seen in this country is much to be preferred as a pot plant and is only to be obtained from roots or cuttings.

VERNON T. SHERWOOD.

Charlestown, N. H.

"CROWN GALL" ON MARGUERITES

Editor HORTICULTURE:

I would be much obliged and interested if one of your readers could tell me what to do in the case of plants affected with crown gall, or what is called, I believe in the absence of accurate scientific information, Bacterium tumifaciens? With me this gall has affected marguerite Mrs. F. Sander and Queen Alexandra at the point where the plants were stopped, and grows as large as a marble. I have tried cutting well back and dusting with sulphur but to no purpose; the gall forms again on top of the cut. Both pot and field-grown plants are affected and the young plants appeared to be perfectly healthy in the first instance.

Yours very truly,
VERNON T. SHERWOOD.

At the Syracuse (N. Y.) Fair, last week, the Julius Roehrs Company, of Rutherford, N. J., showed a carload of tropical plants, together with dwarf evergreens and bay trees, which Superintendent Vick termed the finest display of the kind ever exhibited in this section of the country.

CLUBS AND SOCIETIES

NEW YORK STATE FEDERATION OF FLORAL CLUBS.

There was an enthusiastic meeting, September 11, 1913, about forty members being present, the principal business being, of course, to resume preparations to wage an active campaign to secure the appropriation for glasshouses for experimental work in floriculture and vegetable culture. It was decided this time, to ask for an appropriation of $75,000 instead of $60,000 the amount asked for last spring.

The present officers were elected unanimously and President Kasting appointed the same committees as were serving in 1913. The important discussions were taken part in by F. R. Pierson, W. F. Kasting, Arthur Cowee, Charles H. Vick, Dr. E. A. Bates, Prof. Patch of Cornell University, and others. I consider this meeting a very satisfactory one and it proves that the florists of the state are awakened to their opportunities, and plans were outlined towards making the State Federation of Floral Clubs, a much stronger organization than it is at present. Treasurer Adams of Buffalo, in his report, showed a very substantial balance in the treasury with all bills paid.

At the conclusion of the meeting, President Kasting entertained the officers with a dinner at the Onandago Hotel. Some of the largest exhibitors were Lord & Burnham Co., F. R. Pierson Co., H. A. Dreer, James Vick & Sons, Arthur Cowee and F. C. Thomann.

JOHN YOUNG, Secretary.

Denouncing the housing facilities for horticultural exhibits at the fair as an "insult as well as a joke," the New York State Federation of Floral Clubs recently appointed a committee to confer with the commissioner about getting a new $200,000 building for the 1914 exposition.

Words were not minced at the annual meeting of the Federation in the Grange Building on the fair grounds.

It was emphatically asserted that the elaborate floral display this year, the best in the history of the fair, was due entirely to the hustling qualities and wide trade acquaintance of Superintendent Charles H. Vick of Rochester, who induced some of the most prominent growers in the country to send exhibits. Warning was issued that unless adequate facilities were provided, the leading flower growers of the State would not be represented at the 1914 State Fair.

Societies Back of Movement.

Behind the action taken recently stand the organized floricultural interests of the State, consisting of the New York Florists' Club, the Buffalo Florists' Club, the Rochester Florists' Association, the Tuxedo Horticultural Society, the Tarrytown Horticultural Society, the New York and New Jersey Plant Growers' Association, the Dutchess County Horticultural Society, the Albany and Utica Floral Clubs and the Syracuse Rose Society.

In efforts to secure a new horticultural building the florists have the support of the fruit and vegetable growers of the State, both of which were represented at the meeting held recently.

Before the close of the fair a committee of eight, two each from the State Federation of Floral Clubs, the Western Horticultural Association, the State Fruit and Vegetable Growers' Associations will meet with the Fair Commission.

The professional florists of the State represented investments aggregating more than $9,000,000, President William F. Kasting, postmaster of Buffalo, told the Federation representatives at the meeting held recently. In the industry over 25,000 men were employed.

Better Facilities Needed.

On account of the magnitude of the interests involved, he thought, the State of New York should provide more adequate facilities for floral exhibits. Vegetable and fruit growers were as much interested in securing a new building among the florists, it was said.

Frank R. Pierson, of Tarrytown, one of the largest exhibitors, thought that the fair management was not fully alive to the importance of the horticultural interests which instead of being the end should be made one of the chief features of the New York State Exposition.

"The present buildings for housing the fruit, flower and vegetable displays are a joke," Mr. Pierson said.

"An insult as well!" one of the representative florists exclaimed.

Would Be Great Attraction.

The floral exhibits, both inside a suitable building and on the grounds, could be made one of the strongest drawing cards of the fair, Mr. Pierson thought. Professional growers would be glad to take over the work of the floral decoration of the fair grounds without cost to the State.

Superintendent Charles H. Vick said that unless conditions are changed and a new building provided, it would be almost impossible to get large growers to exhibit at future expositions.

Greenhouses at Cornell.

President Kasting announced that strenuous efforts would be made to secure the passage of a bill for the erection of large greenhouses at Cornell University. A bill for this purpose, carrying an appropriation of $60,000, was passed by the last legislature, but was vetoed by the governor. It is now proposed to ask for a $75,000 appropriation.

Addresses were made by Earl A. Bates of this city and Prof. E. C. Patch of Cornell University.—*Syracuse Post-Standard.*

The Indiana State Florists' Association held a meeting at Smith & Young's, Indianapolis on September 11.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of this society was held on Friday evening, Sept. 12th. A visit was made by some of the members to the N. J. Experimental Station at New Brunswick, where the different results obtained in the various soils and fertilizers were noticed with great interest. The society is awaiting the end of the year, when a bulletin will be issued by the Experimental Station, showing these various developments on different flowers especially rose and carnation treatment.

John Devan tendered his resignation as secretary as he leaves for quite a distance. We sincerely hope for his future welfare as everyone feels sorry at the loss of so capable a secretary. He was a faithful worker for the society and he takes with him the best wishes of every member.

The society voted a cup, value $10, to be given as a prize for single dahlias at the coming show, Sept. 27th and 28th, and if the exhibit be meritorious enough a second prize will be awarded. The cup is to take the place of the cup so kindly donated for the best display of gladioli, by John Lewis Childs, Flowerfield, N. Y., as there was no class for gladioli on the schedule. This cup will be set aside for a special gladiolus night next year.

Awards for the exhibits of the evening were as follows: Cypripedium Harrisianum Mrs. Barr, Llewelyn Pink, 90 points. Celosia, Mrs. Chas. Hathaway, 70 points. Lord & Burnham prize, Phoenix Rochebeni, Syd ney & Austin Colgate, 90 points.

Not for Competition Seedling dahlias, Mrs. H. Graves, certificate of merit; Cypripedium Barrii, Mrs. Barr, certificate of merit; Essex County Country Club, seedling rose, vote of thanks; collection of hardy roses, Wm. Tricker, certificate of merit; vase of aster Egeon, Wm. Tricker, highly commended.

GEO. W. STRANGE, Sec'y.
216 Main St., Orange, N. J.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held its regular monthly meeting on Thursday afternoon, September 11, this being the meeting for installing the new officers. This with a talk on "Gasing Against White Fly," by Adolph Jaenicke brought out a large attendance.

R. J. Windler, chairman of the Publicity Committee made a long report for his committee and said they needed money to carry on this work. After a long discussion it was voted to appoint a committee of 25 and that this committee raise a fund of $2,000 to be used for publicity work by them. The installation of officers then took place with John Connon in charge and President-elect Pilcher was duly installed and took President Weber's place in the chair. This was followed by the installation of Vice-President A. Jaenicke, Secretary Beneke, Treasurer Smith and Trustee Windler. Mr. Jaenicke's lecture on "Gasing Against White Fly" was illustrated by the use of the blackboard and proved very interesting to the growers present.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The first meeting of the season was held on Tuesday evening, September 16. The topic for consideration was the recent Convention at Minneapolis. J. K. M. L. Farquhar, P. Welch, W. J. Stewart, M. A. Patten, T. J. Grey and Eber Holmes were severally called upon and each one talked on interesting phases of the Convention, the scenes and incidents of the journey and the responsibilities resting on the Boston members for the coming year to make the Convention here as pronounced a success as that of Minneapolis. All were optimistic and enthusiastic over the outlook and when Mr. Wirth assumes his position as president next January, he will find Boston willing and well prepared to take hold with him and work zealously to make the Convention of 1914 a record breaker.

There were a few exhibits including gomphrena, Gladiolus Princeps, Gorgeous carnation, Golden Glow chrysanthemum and some very fine apples. The chrysanthemums were elegant specimens and Herman Bartsch, who brought them, spoke very highly of the usefulness and profitableness of this early variety which comes in at so opportune a time and is all cleaned off by the time the space is needed for azaleas. The flowers shown were from cuttings planted June 14. His system is to plant them three in a bunch, the bunches 8 by 10 inches apart, and grow to single stems.

Messrs. Guerineau, Miller and Barney were appointed a committee to prepare resolutions on the death of J. M. Gleason.

AMERICAN ROSE SOCIETY.

President Wallace R. Pierson called the Executive Committee of the American Rose Society together last week at a meeting in New York City, going particularly into the proposed work to be done regarding the establishing of a Rose Test Garden in the city of Washington. The committee in charge of this work, appointed at the annual meeting, were as follows: Messrs. Robert Pyle, Patrick O'Mara and W. F. Gude. Mr. Gude being located in the city of Washington had followed up the matter, in touch with the men in charge of this particular work of the Department of Agriculture.

The plan as outlined is—a garden of some two acres located at Arlington Heights, Va. Mr. Mulford of the Department of Agriculture is in charge. The permanent Rose Garden Committee appointed at the August meeting of the Rose Society in Minneapolis is composed of Messrs. Alex. Cumming, Jr., Hartford, Conn.; Theodore Wirth, Minneapolis, Minn., and Robert Pyle, West Grove, Pa. This committee has been requested to prepare plans for a rose garden based upon the broadest lines and to inquire into the conditions of the famous rose gardens of Europe, as well as those already established in this country, and to report back to the Executive Committee for approval.

A CONFERENCE AT LAKE MINNETONKA



Arnold Ringier, Pres. Farquhar, W. J. Stewart.
Stewart Admonishes Ringier on Smoking.

Prof. Liberty H. Bailey of Cornell University, took up with the American Rose Society the desirability of having a test garden at Ithaca which could particularly try out the varieties most fitted for the latitude of the eastern and northern section of the country. Minneapolis has started a rose garden which was visited by the Rose Society while attending the convention in that city. New Jersey, through Professor of Horticulture Blake at New Brunswick, N. J., has a like project in view. The Executive Committee directed that a letter be sent to these three parties asking for the subjection of plans to be carried out.

The prize winners at the Hartford Test Garden in June were as follows: E. G. Hill Co., Richmond, Ind.; John Cook, Baltimore, Md.; Peter Henderson & Co., New York City; Lowe & Shawyer, Uxbridge, England; A. N. Pierson, Cromwell, Conn.; Shatemuc Nurseries, Barrytown, N. Y.; Conard & Jones Co., West Grove, Pa.; Hoopes, Bro. & Thomas, West Chester, Pa. They received the silver medals and certificates of merit awarded by the American Rose Society.

Special effort will be made to increase the membership of the Rose Society. The committee appointed at Minneapolis has mostly reported a willingness to push this work broadcast.

The Secretary has been gathering from American rosarians a list of roses originated in America, the variety, name and date. The meeting directed that this work be continued, and that the result as far as obtained be published in the Annual Bulletin as an official list. These Bulletins have been called for far and near, until there are only a few samples on hand for permanent record. The next edition will have to be increased.

The committee adjourned to meet the second Monday in October.

BENJAMIN HAMMOND,
Secretary.

City of Beacon, N. Y.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of this Society was held in Doran's Hall, Greenwich, Conn., September 12th. Interest centered in the fall show which will be held in the Armory, Stamford, Conn., November 7-8th. The finished schedule is now in the printer's hands. A very interesting address on the hickory bark beetle was given by Mr. De Viver of Brouxville, N. Y. showing specimens of the beetle and the havoc it is doing to the hickory, also instructing the members how to combat this new pest which is doing so much damage in the New England states.

The prize offered by A. R. Kennedy for best collection of hardy flowers was won by A. Whitelaw, P. W. Popp being second. Other exhibits were as follows: P. W. Popp, Certificate of Merit for collection of named gladioli in 65 varieties, Thomas Ryan, honorable mention for collection of hardy grapes, O. A. Hunwick, honorable mention for egg plant fruits, O. P. Chapman, Jr., Westerly, R. I., honorable mention for a splendid collection of dahlias.

A special prize is offered at next meeting for best collection of dahlias.

OWEN A. HUNWICK, Cor. Sec'y.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of this society was held at Glen Cove, L. I., on Wednesday evening, Sept. 10th. The Pino-Lyptol Co. donated a special prize for the fall show. Fruit and vegetables were exhibited by several members and the awards were as follows: Melons, G. Ashworth; corn, F. Pettroccia; apples, H. Boeltcher. Honorable mention to H. Jones for melons, thanks of society to J. Robinson for apples. The schedules for the dahlia show, Oct. 8th, were distributed. The prize list is a good one and a successful exhibition is looked for by all. JAMES MACDONALD, Cor. Sec.

A WORD OF THANKS AND APPRECIATION.

The Local Committees in charge of the arrangements of the Convention of the Society of American Florists and Ornamental Horticulturists, held in our city, Aug. 19-23, wish to express their sincere thanks to all who have helped to make the Convention of our National Society the great success it was:—

To His Honor, the Mayor, whose address of welcome to our guests captured their hearts and made them feel at home.

To the Honorable Board of Park Commissioners, whose action in giving the use of the land and preparing same, together with the contribution of plants and labor which made possible the outdoor plant exhibit, and whose musical entertainment at Lake Harriet was enjoyed by our guests.

To the daily press and trade papers which accorded us liberal space, and rendered in their issues good accounts of the Society's aim and work and the Convention's deliberations and achievements.

To the Civic and Commerce Association whose assistance in publicity work before and during the Convention was of the greatest help toward the success of the meeting.

To the merchants and others who through cash donations, advertisements in our Souvenir Album and the loan of autos, etc., made the entertainment of our guests possible and a source of pleasure to all.

To the hotels who so well provided for the comfort of our guests, and to the people of our city in general who in one way or another gave us their support and good will in our undertaking.

Our friends and guests have departed for their homes with nothing but praise and the best of feelings towards our city and its people, all due to the assistance given us in our efforts to bring about these happy results.

Again, we thank you.

CONVENTION EXECUTIVE COMMITTEE
of the Minneapolis Florist Club and Minnesota State Florist Association.

MEDFORD HORTICULTURAL SOCIETY.

The Medford (Mass.) Horticultural Society feels very much encouraged over its second exhibition, which was held on September 12, in the vestry of the Mystic Congregational Church. The exhibits showed care and good cultivation; in fact, some of the specimens in the different classes would have been winners had they been shown at some of the larger societies' exhibitions. The children's gardens were quite a feature and competition was keen, good taste in arrangement being quite noticeable. A committee had charge of this branch of the Society's effort since early spring, and worked hard visiting the various gardens and instructing the children in their care. The result of this continued effort throughout the season was quite apparent, showing what can be done even in horticulture when the elders come down to the children's level, and help to keep up enthusiasm. Other noticeable exhibits were the dahlias shown by Parker A. Mansfield of Malden. The centre pieces for dinner tables by Miss Arington and Mrs. D. J. Puffer were as fine as the writer has seen in this line around Boston. Miss Gertrude Copeland of Melrose gained the silver cup for the best general display of twenty varieties of cut flowers. The tuberous-rooted begonia flowers of Mrs. I. J. Sturgis of Brookline, attracted considerable attention on account of their size. Excellent vegetables were shown by Mrs. J. W. Tufts and Mrs. Hardy Garret. The tomatoes in Mrs. Tufts' collection were grand, Stone and Success being of enormous size and fine shape and color.

The Breck-Robinson Co. of Lexington put up a fine trade exhibit of gladioli and other herbaceous flowers. B. Hammond Tracy had a table of gladioli of the newer kinds. The platform was filled with flowering and foliage plants from the greenhouses of the Lawrence estate.

GEORGE F. STEWART.

CONNECTICUT HORTICULTURAL SOCIETY.

Our regular series of autumn meetings commenced on the evening of the 12th instant, at the County Building, Hartford, with the observation of "Hardy Perennial Night," and a splendid exhibition of over sixty varieties of hardy herbaceous plants, made by President Huss and Treasurer Hunt.

A first-class certificate was awarded to each. President Huss then gave an interesting and instructive description of the different varieties, their merits, uses, and methods of propagation. The meeting was largely attended, and seven new members were added to the roll.

A. Cumming, Jr., our former efficient secretary, and lately head gardener of the Park Department of Hartford, has recently removed to Cromwell, to fill an important position with A. N. Pierson. He will retain his membership and interest in the society.

The society has recently sustained a loss in the resignation of Secretary George W. Smith, who, however, retains his membership relations, and who is now actively engaged in inducting the new secretary into the numerous duties of the office.

As heretofore stated, the society will not give any fall exhibition this year,

BOBBINK & ATKINS
PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES
INSPECTION INVITED
Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES
200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.
DEAL TRADE MARK
FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.
SEND FOR PRICE LIST W. B. WHITTIER & CO., So. Framingham, Mass.

SMITH'S PRODUCTS
Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.
Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.
ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT
JAPANESE MAPLES IN POTS
Potted Strawberries our OWN GROWING
Roses from 6-INCH pots
Send us a list of your wants
P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

STRAWBERRIES
POT-GROWN PLANTS
All the Leading Varieties .... for ....
Immediate Planting
BRECK-ROBINSON NURSERIES
LEXINGTON, MASS.

BALTIMORE NURSERIES
California Privet
Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.
Get our prices and catalog
Franklin Davis Nursery Co.
BALTIMORE, MD.

owing to the recent tinkering with the state statute appropriating funds to incorporated agricultural societies, and on account of which we lost over $150 last year to reimburse us for premiums paid out. The present statute corrects a verbal technicality in the old one, resumes the appropriation to this and similar societies; and our organization will doubtless renew the fall shows next year. Sept. 26th will be "Dahlia Night" and we look for a grand display, despite the unfavorable season.

ALFRED DIXON, Secretary.

Wethersfield, Conn.

DAHLIA AND FRUIT EXHIBITION AT BOSTON.

A very fine exhibition of seasonable flowers and fruit was held by the Massachusetts Horticultural Society on Friday, Saturday and Sunday, September 12-14. The display filled the large exhibition hall and the small hall adjoining. The date was at least a week too early for the dahlias. A great many were shown but quality was not up to usual standard. Prominent among the prize winners in the dahlia classes were: W. D. Hathaway, E. W. Ela, Sisson & Thurston, Miss Fanny Foster, J. K. Alexander, E. F. Dwyer & Sons, C. H. Walker and Lilian M. Towle. Other exhibitors, to whom gratuities were awarded were as follows: Thos. W. Head, George B. Gill and G. H. Walker, dahlias; Wm. Whitman, F. J. Rea and Old Town Nurseries, hardy herbaceous flowers; Mrs. J. Y. Gardner and Mrs. Fred'k Ayer, decorative plants; Mrs. E. M. Gill, Mrs. M. W. Charbourne and Theo L. Dean, flowers. The following received honorable mention: Eastern Nurseries, Clematis 848 and Potentilla 821, both novelties from China, collected by Purdon; B. Hammond Tracy, gladioli arranged in baskets, etc.; Fottler, Fiske, Rawson Co., very extensive display of gladoli and dahlias; R. & J. Farquhar & Co., varieties of Buddleia variabilis, palms, phloxes; Mt. Desert Nurseries, large display of hardy herbaceous flowers; Peirce Bros., bouquets of Mme. Cecile Brunner rose.

The new clematis above mentioned is a yellow flowered species very similar to C. Tangutica, but hardly the equal of the latter from appearances. The potentilla is a very pretty and distinct species with bright yellow flowers. In the plant display of Mrs. Ayer, Dracaena Godseffiana attracted much attention, being well furnished with bright scarlet fruit.

The fruit display was notable for the native grapes and peaches which were ahead of anything shown in recent years, and for the inferiority of the apple classes. Thos. E. Proctor, gard. James Marlborough, showed a splendid collection of foreign grapes, which took the Farlow prize and also received honorable mention for Princess of Wales peaches.

A very interesting exhibit was made by David Lumsden for the New Hampshire Agricultural Experiment Station, —showing a large French cantaloupe an English musk melon, and a hybrid that he has raised by crossing these two. This exhibit received a well deserved silver medal. Honorable mention was awarded to Mrs. V. V. Hersey for Boston Market tomatoes and to Baker Farm for Sterling Castle tomato. Wilfrid Wheeler exhibited a very fine collection of peaches.

DAHLIA AND HARDY PERENNIAL SHOW AT PHILADELPHIA.

A very good exhibition of dahlias and hardy perennials was held in Horticultural Hall, on the 16th inst. The largest exhibitor of dahlias was W. Atlee Burpee & Co., who showed some one hundred and fifty varieties. In the competitive classes the most successful prize winners were: Wm. Robertson, David Aiken, Joseph Hurley and John Little. One of the most striking among the new dahlias was the variety Margaret Bouchon exhibited by Robertson, for the Dreer prize. This may be described as a glorified Kriemhilde, same class and nearly double the size. A striking item in Hurley's collection of outdoor flowers was, the Orleans Baby Rambler rose unusually fine as to color and substance for this season of the year. Dreer put up a good exhibit of dahlias single flowers inserted in pots of adiantum which set them off nicely.

Many of the regular exhibitors among the private gardens around Philadelphia were unable to show, dahlias being off crop on account of the dry weather. Three weeks ago most of them could have made an excellent showing. Peacock sent in his famous new peony flowered variety John Wanamaker, a handsome shade of lavender pink of fine form and substance. We do not think it will become popular as a commercial variety, being weak in the neck and requiring to be wired to make it stand up.

J. Murray Bassett made an interesting display of the Ranere raspberry, a two-crop variety that has excited some attention of late years.

CLUB AND SOCIETY NOTES.

The New London Horticultural Society held its monthly meeting on Thursday, 11th inst., when plans were discussed for the Dahlia Show which is to be held on the 24th. A paper was read by Mr. Fox of Uncasville on the "Development of the Wild Flowers of the Fields and Woods."

The Ladies' Home Circle of St. Louis held their regular monthly meeting at the home of Mrs. John Steidle on Wednesday, September 17. In our note last week mentioning this meeting it was stated that the date was Mrs. Steidle's birthday anniversary. This proved to be erroneous, but all had a good time notwithstanding.

Dates for the sixth annual fall flower show of the Pasadena Horticultural Society have been determined on. The big exhibit of autumn flowers will be held October 23, 24 and 25. The show will probably be held at The Maryland as in former years. Special attention is being paid this fall to the schools, with a view of obtaining a large number of exhibits from the pupils, showing what they have done with their school gardens. The American Gladiolus Society has offered two prizes, silver and bronze medals for the best exhibits of gladioli, but it is not likely that there will be any entries in that class, as the gladiolus season is over by August.



Mignonette

Boddington's Majesty

THE finest of all the Fancy Varieties of Mignonette for Winter Forcing; seed saved from select spikes under glass. We have received many testimonials with regard to the excellence of this variety.

Trade Packet 60 cts., ⅛ Ounce $1.00, Ounce $7.50.

Arthur T. Boddington

SEEDSMAN

342 West 14th St., New York

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

American Seed Trade Association.

Resolutions on the death of J. A. Bolgiano:

RESOLVED, That in the death of Joseph Ault Bolgiano, for many years head of the seed firm of J. Bolgiano & Son, Baltimore, Md., who died March 1, 1913, in the seventy-seventh year of his age, our Association has lost another Charter Member who was prominent in the organization of our Association, and for many years a hard worker for the welfare of the seed trade.

We recognize in his death the loss, not only to our membership, but to the community and many institutions with which he was connected as well.

We express our sympathy with his family and friends in their bereavement.

RESOLVED, That a copy of these resolutions be spread on the minutes of our Association and printed in our annual report, and that a copy be sent to the families of our departed member.

J. C. ROBINSON,
W. D. ROSS,
L. L. OLDS,
Committee.

Gt van Waveren & Kruijff of Sassenheim, announce that Louis Berger is no longer their representative in America.

The Holland-America steamer Zuiderdyk landed 609 cases of bulbs at Boston, September 15, and an equal number were on board consigned to Philadelphia.

CATALOGUES RECEIVED.

Fraser Nursery Co., Huntsville, Ala. —Wholesale Price List for Fall, 1913. This list is for nurserymen and dealers only.

NEWS NOTES.

Carthage, Mo.—Thomas R. Johnson has acquired the Carthage greenhouses.

Westbury, N. Y.—Robert S. Rennison has bought the nursery business of A. N. Robertson.

San Francisco, Cal.—The Weston Evergreen Co., have opened a greenhouse establishment, corner Bush and Kearny Sts.

Cleveland, O. — The Wilson Florist Co. has acquired title to four acres of land adjoining its plant at 14113 Woodworth road in old Collinwood. J. W. Wilson is president of the company and A. B. Wilson is secretary. Part of the land will be used as site for additional greenhouses made necessary by expanding business. The balance of the acreage will be opened by running a street through, and will be allotted and marketed for residence property.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

CHRISTMAS OR WINTER FLOWERING SWEET PEAS

	oz.	¼ lb.	lb.
Michell's Snowdrift, pure white, black seeded	$0.25	$0.75	$2.00
Christmas Pink, pink and white	.15	.50	1.50
Christmas White	.15	.50	1.50
Christmas Meteor, scarlet	.15	.50	1.50
Mrs. Alex Wallace, lavender	.15	.50	1.75
Mrs. Chas. H. Totty, lavender	.15	.50	1.50
Mrs. Edie Wilde, carmine red	.15	.50	1.50
Mrs. F. J. Dolansky, daybreak pink	$0.15	$0.50	$1.50
Mrs. Geo. Lewis, pure white	.15	.50	1.50
Mrs. Wm. Sim, salmon pink	.15	.50	1.75
Mrs. W. W. Smalley, satin pink	.15	.50	1.50
Le Marquis, dark blue	.15	.50	1.50
Watchung, pure white	.15	.50	1.50

Also many other varieties.

Our latest Wholesale Catalogue of Bulbs, Seeds and Florists' Supplies Just Out. Send for a Copy if you did not receive one

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

WALTER MOTT'S NOTES BY THE WAY.

San Antonio, Texas.

The long continued drought has at last been broken, bountiful showers having fallen through the entire state. Vegetation revived and a good second picking of cotton is predicted. Grand old specimens of Chamaerops excelsa and Washingtonia filifera have withstood the drought and even Latania Borbonica has come through well. Gorgeous beds of cannas planted around the Alamo and San Jose Missions are in a perfect blaze of bloom. Alphonse Bouvier is used for background. Chas. Henderson, J. D. Eisele and Chicago for scarlets; Souv. de Antoine Crozy, Queen Charlotte and Florence Vaughan are in the list of old favorites. Tarrytown makes a fine bedder, while everyone recognizes King Humbert at sight—it is simply magnificent. Very attractive is a hedge of Euonymus radicans variegata surrounding the new post office building. It is 3 feet high and almost as much through. Ficus repens is very striking against the gray stone structure.

The white periwinkle is much used by the florists; the single bloom is bunched and wired making an excellent substitute for carnations, being at its best before the latter come into crop. White Wonder is the most popular white carnation in the southwest. It has withstood the drought very well and is doing finely planted inside early. The use of window boxes is on the increase, using up all the surplus stock; in fact, there was a scarcity before the season ended. While much artificial stock is used in some decorations there does not seem to be any danger of the real article being superseded for fine work.

During Recess

Joseph Breck & Son's Employees.

About 150 employees of Joseph Breck & Son of Boston were the guests of the Breck-Robinson Company at their nurseries in Lexington, Mass., on Sept. 13. Charles H. Breck, president of the firm, was present and gave his touring car for the use of the women to carry them over the large estate. The party arriving here found lunch awaiting them. A. E. Robinson, general manager of the nurseries, received the company. After lunch and a trip about the nurseries the party repaired to a large field where some athletic sports were enjoyed. A baseball game between teams representing the Boston store and the nursery lasted seven innings, resulting in a victory for the nursery team, 19 to 6. A game of baseball for women was then started and a team captained by Miss Mary Collins faced one captained by Miss Jennie McCarthy. Miss Collins' team won, 6 to 3. The field events were then held. The summary:

Ladies' Race—Won by Miss Josie Kilduff; Miss Jennie McCarthy, second.

Married Men's Race—Won by Alec Joiner; James Carroll, second.

Three-Legged Race, man and woman having ankles strapped together—Won by Alec Werner and Miss Elizabeth Dillon.

After the games a general good time was held, after which the party was conveyed to Boston in special electric cars.

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c tr. pkt. **Trimardeau Selections**, mixed, $1.00 per oz., 50c tr. pkt. **Trimardeau**, fine mixed varieties, $1.50 per oz., 25c tr. pkt. **Cassier's Giants Improved**, splendid mixture, $5.00 per oz., 50c tr. pkt. **Trimardeau sorts** as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c tr. pkt. My catalogue has also other varieties

O. V. ZANGEN, Seedsman, Hoboken, N. J.

NEW WINTERFLOWERING
SWEET PEA LIST
has been mailed. If you have not received one, drop me postal.
ANT. C. ZVOLANEK
Greenhouses: BOUND BROOK, NEW JERSEY
Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice
On and after this date our address will be
98 Chambers St., N. Y.
Between Broadway and Church St.
BURNETT BROS.
Seedsmen
CALL AND SEE OUR NEW OUTFIT

SEEDS
For Early Sowing
Price List for the Asking
The W. W. Barnard Co.
231-235 W. Madison St., CHICAGO

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

FOTTLER FISKE RAWSON CO.
BOSTON
LILIES
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Specinl Florist List

PANSY SEED
Specially Blended for Florists Use.
TRADE PKTS. $1.00.
Wm. Elliott & Sons
42 Vesey St., New York

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches: Michigan and Wisconsin MILFORD, CONN.
The LARGEST OF ALL GIANTS
W. & D.'s AMERICAN SHOW
PANSIES
With Great Diversity of Color. ⅛ ounce $1.50
WEEBER & DON, Seed Merchants
114 Chambers St., New York

BULBS and HARDY PLANTS
Contracts made for Seed Growing
Send for price list
E. S. MILLER, WADING RIVER, N. Y.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS
Send us your wants. We will take care of them. We supply stock at market price.
Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

PANSIES
THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00
We have also extra fine strains of Masterpiece, Madam Perret and all leading varieties of Giant Trimardeau. Write for Prices.

FREESIA

	100	1000
REFRACTA ALBA:		
⅝ to ½ in. diameter.....	$0.75	$5.00
½ to ¾ in. "	1.00	8.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference.....	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15...	$3.75	$35.00
NARCISSUS, Paper White Grandiflora, 13-15.....	1.25	8.00
LILIUM CANDIDUM, 20.....	5.00	40.00

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 15) NEW YORK, N. Y.

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. Heins Sons, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. Neubert, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. Keilholz, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders

IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 218G
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Sault Ste. Marie, Mich.—Philip Rawlinson has sold out to W. E. Weber.

Winnebago, Minn.—Fred Stimpson has purchased the business of Miss Blanche C. Seger.

North Milwaukee, Wis.—William Manke has bought out his brother's interest in the business of Manke Bros.

STEAMER DEPARTURES

Allan.

Ionian, Montreal-London ... Sept. 21
Victorian, Montreal-Liv'p'l ... Sept. 23
Pomeranian, Montreal-L'n ... Sept. 28
Corsician, Montreal-Liv'p'l ... Sept. 30

American.

St. Louis, N. Y.-S'hampton ... Sept. 26

Atlantic Transport.

Minnetonka, N. Y.-London ... Sept. 27

Cunard.

Lusitania, N. Y.-Liverpool ... Sept. 24
Alaunia, Montreal-Liverpool ... Sept. 27
Franconia, Boston-Liverpool ... Sept. 30

French Line.

Florida, N. Y.-Havre ... Sept. 24
La Provence, N. Y.-Havre ... Sept. 24
Chicago, N. Y.-Havre ... Sept. 27

Hamburg-American.

Cincinnati, Boston-Hamburg ... Sept. 23
Amerika, N. Y.-Hamburg ... Sept. 24
Oceanic, N. Y.-S'hampton ... Sept. 27

Holland-America.

Potsdam, N. Y.-Rotterdam ... Sept. 23
New Amsterdam, N. Y.-R'd'm ... Sept. 30

Leyland.

Winifredian, Boston-Liv'p'l ... Sept. 27

North German Lloyd.

Kaiser Wilhelm II, N. Y.-Bremen ... Sept. 23
Friedrich der G., N. Y.-Br'm'n ... Sept. 25
Kronprinz Wilhelm, N. Y.-Br'm'n ... Sept. 30

Red Star.

Kroonland, N. Y.-Antwerp ... Sept. 27

White Star.

Arabic, Boston-Liverpool ... Sept. 23
Cedric, N. Y.-Liverpool ... Sept. 25
Oceanic, N. Y.-S'hampton ... Sept. 27
Laurentic, Montreal-Liv'p'l ... Sept. 27

New York—Russin & Hanfling, dealers in florists' supplies have moved into spacious new quarters at 134 West 28th street.

Kansas City, Mo.—The T. J. Noll Commission Co., is a new enterprise here in which T. J. Noll and R. W. Bohannon are interested. A full line of florists' supplies will be carried.

San Francisco, Cal.—The General Florists' supply Co., has been organized here by S. F. Beattie and J. Perusina and will open business in a short time with a full stock of florists' supplies.

Stege Sta., Alameda County, Cal.—Armanino & Co., have leased the rose houses of Cook Bros.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must Be Prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS CO
FLORISTS
1214 F ST. N.W.
WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists' Telegraph Delivery Association
NO OTHER ENTRANCE. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield, St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Younge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

NEW FLOWER STORES

Brookline, Mass.—D. J. Quinn.

Manchester, N. H.—Osgood Bros., 408 No. Main street.

Charleston, S. C.—Bolger & Ernest Co., 296 King street.

Oakland, Cal.—Thorsted Floral Co., 14th and Washington streets.

Montgomery, Ala.—W. E. Denny, formerly of New Orleans, La.

INCORPORATED.

Akron, O.—Gibbs Floral Company; capital $10,000.

New York, N. Y.—Walter R. Siebrecht Co.; capital $10,000.

San Francisco, Cal.—General Florist Supply Co.; capital $50,000.

Cowenton, Md.—The Annual Dahlia show of R. Vincent, Jr., & Sons Co., will be held Sept. 30 to Oct. 4 this year. It is expected that the florists of Washington and Baltimore will attend the show in a body on the opening day. Florists from other cities will receive a cordial welcome.

DID YOU See Our Display?
IT WAS A BEAUTY
EVERYBODY SAID SO
BY COMPARISON
WITH OTHERS
IT PROVED CONCLUSIVELY
RICE SUPERIORITY
IT PAYS TO DEAL WITH
THE HOUSE THAT
SETS THE PACE
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

Chicago.
A. LANGE,
25 E. MADISON ST.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO NOTES.

At the regular meeting of the Cook County Florists' Association, this week, the subject of the organization of a bowling league will be taken up.

The Boston Store is offering a large space in its store for the holding of flower shows. This place has conducted a large number of plant sales during the past year.

T. McAllister, in charge of the plant department at A. Lange's, returned from a three weeks' rest, which he loyally spent in Chicago. He says: "There is no better place."

The usual number of florists will compete at the State Fair at Springfield, October 3 to 11. There is always an attractive floricultural department, which this year is in charge of J. E. Taggart, Freeport, Ill.

Last week another florist was moved by appearances of grief to give up a large floral piece and several of her hard-earned dollars, in exchange for a worthless check. This easy game should be well-known now and watched out for.

The Chicago seed stores are very busy places now and the fall bulb business appears to be in full swing. The Dutch bulbs are the last arrivals and hyacinths, tulips, narcissus, and crocuses are being opened up. So far stock seems good.

Poehlmann Bros. Co. are building a box factory at Morton Grove as a part of their equipment at Plant C. There will also be an annex for preparing ruscus and manufacturing the ruscus wreaths, this business having outgrown the accommodations of the store, even in its present size. Chief Engineer Goodwin, who suffered a very severe injury to his face, is doing nicely.

Miss Mary Hayden, of Sam Murray's, Kansas City, Mo., was fortunate in recovering the silver mesh bag which was stolen when Poehlmann Bros.' store was burglarized three weeks ago. The bag was in her traveling case, which she left over night at Poehlmann Bros., after her visit at her home in LeRoy, Wis. The bag was a valuable one and was found in a pawnshop where it was easily identified by the name of her sister engraved on the inside.

Visitor: James Culbert, Rossville, Ill.

ST. LOUIS NOTES.

The Vandevoorts' department store opened its floral department on Monday, September 15, with David Geddes in charge.

Charles Ford, of A. Herrmann, New York; A. T. Hey, of Maywood, Ill.; J. F. Ammann, of Edwardsville, Ill.; and R. Newcomb, of Chicago, were visitors the past week.

John Young, of the C. Young & Sons Co., was married to Miss Hazel Lanigan, last week, and the happy young couple received many congratulations from friends in the trade.

The Mullanphy Floral Co., of North Grand avenue, have leased the southwest corner of Seventh and Olive streets, under the Mercantile Club and will open a flower store there early in October, to be known as their downtown branch. The location is one of the best in the city.



VIEW IN ROSE GARDEN OF MRS. A. W. TEDCASTLE, MILTON, MASS.



Our illustration shows a bit of rose garden in a Milton, Mass., estate. Rose gardens worthy of the name are now, since the advent of the Wichuraiana Ramblers, possible in any part of New England, or corresponding climate in any part of the country. Even the Crimson Rambler, which in its time filled a useful place, is now far outclassed by varieties equally vigorous and hardy but far superior in color and foliage.

The public should be made aware of the fact that if they plant good strong Ramblers now they can have a fine display of flowers the coming summer. Given plants with strong, well-ripened canes, all that is necessary after planting them out is to lay the canes down and cover them well with soil. When uncovered in April they will come out in perfect condition and will bloom freely. Many more might be sold if the public were made acquainted with the many new and beautiful varieties now at their disposal and the quick results that are possible with proper methods of planting and care.

MINNESOTA STATE FAIR AWARDS

Holm & Olson, the St. Paul florists, took the lion's share of the flowers and decorations, announced by the horticultural department of the State Fair. The list follows:

Blooming Plants, covering 100 sq. ft. Minneapolis Floral Company.

Blooming Plants, covering 50 square feet—Holm & Olson.

Kaiserin Roses—Holm & Olson.

Yellow Roses—John Monson, Minneapolis Floral Company.

Yellow Chrysanthemums—John Monson, Minneapolis Floral Company.

White Chrysanthemums—John Monson.

Panel Design—Holm & Olson.

Decorative Plants, covering 100 square feet—Minneapolis Floral Company.

American Beauty Roses—Holm & Olson.

Richmond—Holm & Olson.

Killarney—Holm & Olson.

White Killarney—Holm & Olson.

Fifty Spikes Gladiolus—D. W. C. Ruff, Bald Eagle Lake.

Twenty-five Spikes, Gladiolus—Holm & Olson.

Twelve Spikes, Gladiolus—D. W. C. Ruff.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies – the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

Obituary

James Bishop.

James Bishop, Rochester, N. Y., who was one of Rochester's pioneer florists and who for the past five years had been in charge of the flowers in Highland Park, died on Sunday, Sept. 7, aged 63 years.

William Paul Bender.

After a severe illness of five months, Wm. Paul Bender died on the 12th inst., aged 52 years. He was a well-known gardener having filled important positions in Baltimore and Philadelphia during the past twenty years. His most important place was that of Henry A. Parr, at Rider, near Baltimore, which he managed for many years. He achieved distinction especially in the chrysanthemum, introducing a number of new varieties some of which are grown extensively in the commercial world to this day. He was a native of Germany.

M. E. Pierce

M. E. Pierce, a well-known and respected citizen of Chester, Pa., passed away Friday, Sept. 12, in the Crozer Hospital, following a brief illness of typhoid fever. The funeral took place from his home, 323 Parker street, where he has conducted a florist business for the past few years, on Monday afternoon.

Melchor Pierce was born seventy-five years ago in Lower Chichester township, where he moved to Chester when a young man and ever since has claimed Chester as his residence. He was a stonemason and contractor and has laid the foundation for many of the old buildings of the city.

John Chambers.

It becomes our sad duty to record the death of John Chambers, former superintendent of the parks of Toronto, Ont., on Sept. 1. Mr. Chambers was 63 years of age, having been born in 1850 in Canterbury, England. He came to Canada at the age of 21. His work on the park system of Toronto showed landscape and garden ability of a high order. In 1891 he was vice-president of the Society of American Florists, having been elected as such at the Boston Convention in 1890, and he was a tireless worker in the Convention at Toronto in 1891, where his congeniality and unvarying good nature made him very popular with the convention visitors. He was a member of the American Association of Park Superintendents and several local associations.

Constant Ponnet.

The sudden death of Constant Ponnet, who for over twenty years has conducted a florists' establishment in Alexandria, Va., and a stand in the Center Market, came as a great shock to his many friends in Alexandria and Washington as he had been attending the Market but a day or two before. Mr. Ponnet was a native of France and was sixty-six years of age. When quite a young man he emigrated to this country and some time later engaged in the florist business. Death was due to heart failure. He went to France last year, staying for some time in an effort to better his health, and apparently was much better upon his return. Mr. Ponnet is survived by his widow, two sons and five daughters. Burial was from St. Mary's Catholic Church and interment in St. Mary's Cemetery.

PUBLICATIONS RECEIVED.

L. C. Page & Co., the Boston publishers, are just out with three new books which we briefly note.

Ralph Somerby at Panama is a story of the time of Charles the Second, by Francis Raleigh. Full of thrilling adventure, buccaneers and pirates, wild Indians and Spaniards in fierce conflict, this dramatic tale founded on the early history of the Isthmus of Panama, stirs the reader with an irresistible fascination. The boys, as well as those of maturer years, will find this portrayal of lawless life and physical prowess in the early days of Central America a story of absorbing interest; 306 pages with ten full-page illustrations and copious historical and explanatory notes.

The Golden Road, by L. M. Montgomery, is quite the opposite in character from the foregoing. It is a story for girls, brimfull of humor and merry frolic. Its characters are original and the author has weaved together a series of amusing incidents in a most felicitous manner. As a remedy for "the blues" it will surely prove invincible; 368 pages; price, post paid, $1.40.

Royal Castles of England, by Henry C. Shelley, author of Inns and Taverns of Old London. This is a superb volume. The contents comprise eleven chapters on Southern England, six on Midland England, and seven on Northern England. There are 48 full-page reproductions in sepia from photographs and drawings of these ancient fortresses which have been so closely associated with the history and romance of England, and the loves and hates, the triumphs and defeats of her rulers; 350 pages, exclusive of plates. Price, $3.00 net.

CINCINNATI NOTES.

Henry Schwarz has opened a branch store at 4605 Main avenue, Norwood. His son Ed. is taking charge of the store.

Chas. Windram and his brother-in-law and sister, Mr. and Mrs. Oliver Hety, are motoring through the South to the Lake Shore Ferneries at Leesburg, Fla.

Visitors: H. A. Demeranville, Mobile, Ala.; Mr. Cohan of Wertheimer Bros., New York; Wm. Gardner, New Castle, Ind., and Mr. Uhl, Greenfield, Ohio.

Gold Letters

1¼ inch	45c	per 100
1 "	40c	" "
¾ "	35c	" "

On all orders of 1000 initials or over we will include one compartment box free.

Mother of Pearl LETTERS

The latest for ribbon work. We made a hit right from the start! If you have not received our samples as yet, write immediately and get on the mailing list of the

AMERICAN IMPORTING CO.
219 No. Dearborn Street, Chicago

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

BEAUTIES

$1.00—$3.00 per Dozen

Special price in quantity
Exceptionally fine stock
Good size flowers
The largest supply house in this market

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago
RUSCUS AND RUSCUS WREATHS
Write for Samples and Prices
POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI September 15			CHICAGO September 8			BUFFALO September 15			PITTSBURG September 8		
Am. Beauty, Fancy and Special	20.00	to	30.00	20.00	to	25.00	20.00	to	25.00	20.00	to	35.00
" " Extra	8.00	to	10.00	12.00	to	15.00	10.00	to	15.00	10.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	6.00	to	8.00	4.00	to	6.00
" " Lower Grades	4.00	to	6.00	6.00	to	8.00	3.00	to	5.00	1.00	to	3.00
Killarney, Extra	4.00	to	5.00	6.00	to	8.00	5.00	to	7.00	4.00	to	6.00
" Ordinary	1.00	to	4.00	3.00	to	4.00	2.00	to	3.00	.....	to	2.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	2.00	to	6.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	.....	to	.....
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	7.00	2.00	to	6.00
" " " Ordinary	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	.....	to	.....
Carnations, Fancy Grade	.....	to	1.50	1.00	to	1.50	.....	to	2.00	.....	to	.....
" Ordinary	....	to	1.00	.50	to	1.00	1.00	to	1.50	.....	to	1.00
Cattleyas	.....	to	.....	...	to	50.00	....	to	.....	.....	to	.....
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00	10.00	to	12.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Gladioli	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00	1.00	to	4.00
Asters	.50	to	2.00	1.00	to	4.00	.50	to	2.00	.50	to	2.00
Daises	.....	to	.50	.15	to	.25	.....	to	.....	.....	to	.....
Sweet Peas	...	to	.....	.25	to	.75	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	...	to	15.00
Asparagus Plumosus, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	.....	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	35.00	to	50.00	25.00	to	40.00	20.00	to	40.00



PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Prices Quoted in these columns are for Dealers Only. When writing to Advertisers please mention HORTICULTURE



CEDAR BARK

Won't you want some Cedar Bark for fall window box work? Buy it now—we have a good stock and in **ten bundle lots** we will name you a price of **75c. per bundle; single bundles, $1.00 each.** A bundle contains about 30 sq. ft.

Galvanized Buckets for Growers and Retailers.

In any size to suit your requirements. These buckets are the most economical you can buy. They will outlast any other receptacles made. Do not rot—do not crack—can be easily washed out—with or without handles.

No.	Width	Depth	Doz.	100
0	6 in.	5½ in.	$3.00	$20.00
1	7 in.	6½ in.	3.50	25.00
2	8 in.	7½ in.	4.00	30.00
3	10 in.	9½ in.	4.50	35.00
4	6 in.	10 in.	4.00	30.00
5	7 in.	12 in.	6.00	40.00
6	9 in.	14 in.	10.00	65.00
7	10 in.	18 in.	15.00	105.00
8	11 in.	21½ in.	18.00	130.00

HEADQUARTERS FOR GREENS

Wild Smilax, $6.00 per case.
Bronze Galax, $2.00 per 1000.
Green Galax, $1.00 per 1000; $7.50 per 10,000.
Green Leucothoe, new crop, $1.00 per 100; $7.50 per 1000.
Green Sheet Moss, $3.50 per bag. **Wild Smilax,** $6.00 per case.
Asparagus Strings, 50c. each.
Asparagus and Sprengeri Bunches, 50c. each.
Adiantum, $1.00 per 100.
Smilax, 20c. per string. **Cut Hemlock,** $2.50 per bundle.
Hardy Dagger Ferns, best quality, large fronds, $1.50 per 1000.
Sphagnum Moss, burlapped, 10 bbl. bales, each $3.75; 5 bale lots, each $3.50; 10 bale lots, $3.25 each.

RIBBONS AND SUPPLIES: many new patterns in exclusive Ribbons. **Our new illustrated catalogue of Ribbons and Supplies** will be ready in September. Let us have your name now, so we can mail you a copy.

BUSINESS HOURS FROM 7.30 A. M. TO 6.00 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA
1608-1620 Ludlow Street

NEW YORK
117 West 28th Street

WASHINGTON
1216 H. St., N. W.

P M QUALITY

Flower Market Reports

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON September 18	ST. LOUIS September 15	PHILA September 8
Am. Beauty, Fancy and Special	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" " Extra	8.00 to 12.00	15.00 to 18.00	12.50 to 15.00
" " No. 1	5.00 to 6.00	10.00 to 12.00	8.00 to 10.00
" " Lower Grades	1.00 to 3.00	3.00 to 8.00	2.00 to 6.00
Killarney, Extra	4.00 to 6.00	5.00 to 8.00	4.00 to 8.00
" Ordinary	.50 to 2.00	2.00 to 4.00	1.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 6.00	5.00 to 8.00	4.00 to 8.00
" " Ordinary	.50 to 2.00	2.00 to 4.00	1.00 to 3.00
Maryland, Ward, Taft, Carnot, Extra	3.00 to 8.00	6.00 to 8.00	4.00 to 8.00
" " " Ordinary	.50 to 2.00	4.00 to 5.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.00	1.00 to 2.00	..... to .....
" Ordinary	.50 to 1.00	.50 to .75	1.00 to 1.50
Cattleyas	60.00 to 75.00	40.00 to 50.00	75.00 to 100.00
Lilies, Longiflorum	3.00 to 6.00	10.00 to 12.00	10.00 to 12.50
Lily of the Valley	2.00 to 3.00	3.00 to 2.00	1.00 to 4.00
Gladioli	1.00 to 2.00	1.00 to 2.00	1.00 to 4.00
Asters	1.00 to 2.00	1.00 to 3.00	.50 to 3.00
Daises	.15 to .25	..... to	..... to .....
Sweet Peas	.15 to .25	..... to	..... to .....
Gardenias	8.00 to 12.00	..... to	..... to .....
Adiantum	1.00 to 1.25	1.00 to 1.25	.75 to 1.00
Smilax	10.00 to 15.00	15.00 to 18.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	25.00 to 35.00	15.00 to 35.00	35.00 to 50.00

BOSTON Stock in market each day is getting lighter and there is no bad glut on any line. Gladioli and asters are shortened up, recent frosts in the country districts having hit them hard. Some indoor asters now coming in are very fine and bring from $2 to $3 per 100. As to roses there is no special demand although sales are gradually increasing. Many small, short-stemmed buds are received which, of course, have to be sold for what they will bring. Carnations are improving noticeably but stems are still short. Lily of the valley moves along nicely.

CHICAGO Good stock meets ready sale. The second week in September found a normal demand for all kinds of flowers that could be classed as good, and the week ended with a general clean-up which carried over into Sunday. Monday, the 15th, was busier for the shippers than for those doing a local business, still there was no accumulation of stock. American Beauties are perhaps scarcer than any other flower, the buds for the present cutting having been severely injured by the high temperature about three weeks ago. The demand for lily of the valley continues good, especially in out-of-town orders. Carnations are now showing a rapid increase in length of stem and size of bloom and cuts are decidedly larger. Asters are beginning to evidence the coming of the close of the season. Plenty of fairly good ones are still seen and the aster season is counted as a good one. All kinds of roses are limited in quantity rather than otherwise, which is just as well, for they are now about equal to the demand and prices hold steady. Gladioli are holding to their season's record of being unsatisfactory all around. The first shipments of boxwood are now in from Virginia. Carnations with 22-inch stems are about "the limit" this week and come from Budlong's. Growers expect to begin cutting chrysanthemums regularly about October first. The stragglers which have come along the past six weeks have not received the cordial welcome which will encourage early blooms in the future.

CINCINNATI Stock of all kinds is still plentiful. The aster receipts are larger than at any time this season and only the best are selling. The gladiolus market is in the same condition as the aster market. Dahlias are now coming in strong. Up to this time, however, there has not been a very large call for them. Cosmos is selling well, but the cuts of it are as yet rather limited. Roses are enjoying a better call this week than at any time for the past several weeks. Beauties sell very well. A limited number of carnations are coming into the wholesale houses. The lily supply is rather limited but the receipts seem to be ample for requirements.

(Continued on page 414)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 609 MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignment Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 5893 Mad. Sq 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...$1.75. 50,000...$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4168 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 13 1913	First Half of Week beginning Sept. 15 1913
Cattleyas	30.00 to 75.00	30.00 to 75.00
Lilies, Longiflorum	4.00 to 8.00	6.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	12.00 to 20.00	12.00 to 20.00
Asters	.15 to 1.00	.15 to 1.00
Daises	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches	1.00 to 2.00	1.00 to 2.00
Gardenias	6.00 to 12.00	6.00 to 12.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Prepared MAGNOLIA Leaves
Red, Bronze and Green, Finest in the Country
Try a Sample Order and be Convinced
$1.25 PER CARTON
N. F. McCARTHY & CO., 112 Arch Street, 31 Otis Street, BOSTON, MASS

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 413)

NEW YORK Stock has shortened up greatly in this market and for a little time express charges will be very light. If a good demand would materialize now things would hum, but there is little doing and, even with the reduced receipts, the wholesalers have to work to unload what comes in. American Beauty roses are tending towards normal values and specially good grades of other roses enjoy a fairly steady price. Carnations are improving and with the improvement comes the possibility of getting a little better figure for the top grades. Dahlias and asters are the jonahs just now. The sooner Jack Frost swallows them the better it will be for all the rest. Lily of the valley good and in fair demand.

PHILADELPHIA Beauties sold up clean by end of week. High grade white roses are also in good demand. Radiance is the best seller among the pink roses. There are a good many low-grade among the pinks and these hang fine. Some excellent Richmonds are now to be had. Asters are rather sluggish except in the extra fine qualities. Much of the medium and lower grades remained unsold at the wind-up last week. The advancing season and the cooler weather has greatly improved the dahlia and from now on the stock ought to sell well. Lily of the valley is cleaning up nicely. Carnations are improving and pretty good prices are being realized for all the high grades. Of course a large percentage is short stemmed. Orchids and gardenias, demand and supply both improved and both about on an even keel so that prices remain about the same. Early chrysanthemums going very well. The market could use more white but the yellow one seems the most plentiful.

ST. LOUIS Since the cool weather with good rains which broke the long dry hot spell, business has seemed to pick up. The local trade have had quite a busy week and the last few days cleaned up the market on all the good grades of stock that came in. Beauties had a large demand, so did other roses and carnations but only of the better grades at any time. Smilax is scarce and other greens have a big run.

WASHINGTON A drop in temperature of about forty degrees has necessitated the firing up of boilers in the local greenhouses and last week caused a shortage of locally-grown roses. There is, however, plenty of stock of all kinds to be had. Carnations are improving in quality as are American Beauty roses. Dahlias are in heavy supply. Business seems to be on the pick-up as many of the department stores, and millinery and other establishments are holding fall openings and using quite a quantity of cut flowers. Many of the florists are also busy with fall palm and fern sales and report a good demand for this stock.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Sept. 13 1913	First Half of Week beginning Sept. 15 1913
American Beauty, Fancy and Special	15.00 to 25.00	15.00 to 25.00
" " Extra	8.00 to 10.00	8.00 to 10.00
" " No. 1	5.00 to 6.00	5.00 to 6.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 5.00	3.00 to 5.00
" Ordinary	1.00 to 2.00	1.00 to 2.00
Richmond, Hillingdon, Extra	3.00 to 5.00	3.00 to 5.00
" " " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 10.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.00	1.50 to 2.00
" Ordinary	.75 to 1.00	.75 to 1.00

PHILADELPHIA NOTES.

A. R. Jones and C. H. Grakelow are back safe and sound, from a month's sojourn through the West Indies and Panama.

Robert Schoch, of the M. Rice Co., rotund and rosy, has returned from his western trip and is greeting friends at the store with his usual smile—and bragging about the fine lot of good orders that came his way. It does one good to look at him.

Visitors: G. Hickenson, secretary Hammond Greenhouse Co., Richmond, Va.; Miss Rena Bester, Hagerstown, Md.; Julius Ruzitka, New Bedford, Mass.; Clifford L. Flint, San Luis Obispo, Cal.

Boston visitors: Paul Berkowitz of H. Bayersdorfer & Co., Philadelphia, Pa.; Wm. Anderson, So. Lancaster, Mass.; Mr. Marquardt, representing R. M. Ward, New York; A. E. Thatcher, Bar Harbor, Me.; Leonard Barron, Garden City, N. Y.; Mr. Don, of Weeber & Don, New York.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 88

Personal

David Welch, of Welch Bros., Boston, is on a brief trip southward.

The daughter of Thomas F. Galvin, of Boston, was married at their summer home in Nantucket, Mass., on September 17.

Herman Waldecker of Braintree, Mass., sailed on the Imperator, August 30, for an extended visit to his old home in Germany.

Miss Grace Goldring, daughter of Fred Goldring, and Clarence E. Ostrander were married at Slingerlands, N. Y., on September 3.

John C. Young, son of W. B. Young of C. Young & Sons, florists, and Miss Hazel I. Lanigan, a telephone operator, were married in Clayton, Mo., on Monday, Sept. 8.

Mrs. Beatrice Moss, of the F Street store of F. H. Kramer, Washington, D. C., has returned from Ridge, Md., where she spent a very enjoyable vacation. Among the visitors in town last last week were Robert Schoch, of M. Rice Co., Philadelphia; Charles McCarthy, Boston, Mass.; and William Rehder, Wilmington, N. C.

John Etchingham of the firm of Etchingham Bros., florists of Wayne, Pa., severed an artery in his left wrist while doing some glazing work on the roof of the greenhouses. When pushing a pane of glass into its place, the glass broke and his arm passed through, inflicting a cut of such depth as to sever an artery. The flow was stopped by Dr. E. F. Miller, of Wayne, who was summoned.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Carnations, 150 Queen, 200 Perfection, 400 Winsor, 100 Fenn, 100 Lawson, 150 Pink Enchantress $8.00 per 100. CHAS. H. GREEN, Spencer, Mass.

Field grown Carnation Plants Enchantress, medium size, $4.00 per 100. Cash.—M. J. SCHAAF, Dansville, N. Y.

Lakeview Rose Gardens, Jamestown, N. Y.
Field Grown Carnation Plants.

CLOSING OUT.

FOR SALE—500 field-grown carnations, Fair Maid and Beacon, 4 cents each. 500 Vinca var., 8 cents; 300 Primula, 4 and 5-inch, Dreer's seeds, 25 cents; 300 Obconicas, 4-inch, 8 cents; 100 Hydrangea, 6-inch, 25 cents; 50 Dracena Indivisa, 5 and 6-inch, 12 cents; 300 Pandanus Veitchii, 5½-inch, 8 cents. All first-class plants. EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1634

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Smith's Advance, 2¼-inch pot plants, $2.00 per 100; $20.00 per 1000. R. C., $1.00 per 100. We can supply 5000 per week of this variety, also 88 other best Mums. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum fowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

COLEUS.

R. Vincent, Jr. & Sons, White Marsh, Md.
Cecil Brown.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 395

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co., 219 Dearborn St., Chicago, Ill.
Gold Letters. Mother of Pearl Letters.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FRUIT TREES

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For Field, Garden or Orchard House.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GALVANIZED BUCKETS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

We have in the field large stocks of the gladioli mentioned below, on which we will be glad to quote prices of sizes from ⅝ in. to 2 in., fall or spring delivery: B. Hulot, Europa, Faust, Fred Wigman, Halley, Glory, Lily Lehmann, Liebesfeuer, Niagara, Princepine, Princeps, Panama, Peace, Sulphur King, Willy Wigman, Alice Carey, America, Augusta, F. King, Mme. Monmeret, Rosella, Scarsdale, Taconic, Golden Queen, Rochester, La Luna, etc. First come, first served. Last spring we were compelled to refuse late orders. Cut flowers, $3.00 per 100 f. o. b.
RALPH E. HUNTINGTON, Painesville, O.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

William H. Lutton, Jersey City, N. J.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., 714 Chestnut St., Philadelphia, Pa.
New French Hydrangeas.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.
Hammond's Grape Dust.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Couine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roebrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

Anton Schultheis, 316 19th St., College Point, L. I., N. Y.
For page see List of Advertisers.

POINSETTIAS.

	100	1000
2½ in. pots	$6.00	$55.00

Strong 3-in. pots, fine for bench planting. $8.00 per 100. Cash with order, please.

WARBURTON, FLORIST,
FALL RIVER, MASS.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadlephia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY,
West Grove, Penna.

RUBBER PLANTS

F. Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Mignonette Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

For List of Advertisers See Page 395

SEEDS—Continued

W. W. Barnard Co., Chicago, Ill.
Seeds for Early Sowing.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

PHOENIX ROEBELENII.
We expect from our collector a fresh harvest. Price on application.
SANDER, BRUGES, BELGIUM,
and 258 Broadway, New York, N. Y.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Extra large clumps of Governor Herrick violets; clean and healthy, in every respect. $5.00 per 100. Cash with order. C. W. MOECKEL, Fitchburg, Mass.

Violets from field Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

KING'S IDEAL BOILERS.
King Construction Co., North Tonawanda, N. Y.
For page see List of Advertisers.

LILY BULBS.
Fottler, Fiske & Rawson Co., Boston, Mass.
For page see List of Advertisers.

SPHAGNUM MOSS.
Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

READ THIS

You will need to buy **something** this winter—stock, supplies, equipment, etc., for store or greenhouse. **Look** through the Buyers' Directory and List of Advertisers in this paper and you'll probably find what you want listed there. We are proud of the fact that HORTICULTURE is recognized as the best paper of its class in this country in quality of reading matter and also of the fact that it is coming to be acknowledged as the best advertising medium. **The best friends of HORTICULTURE** are those who buy from HORTICULTURE'S advertisers whenever possible and, in corresponding with the dealers always take the trifling trouble to refer to the paper. We have many such friends, otherwise our advertising columns would soon be deserted.

Don't Forget to Do Your Part

In writing to Advertisers kindly mention Horticulture

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Three percent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



"HAMMOND'S GRAPE DUST"

Used effectively to kill Mildews on Roses and other Plants . . .

Sold by the Seed Dealers.
For pamphlet on Bugs and Blights address

HAMMOND'S PAINT & SLUG SHOT WORKS
BEACON, N. Y. (Fishkill-on-Hudson, N. Y.)

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP"

BRAND

Tobacco Powder

For fumigating or dusting. $3.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

Money refund'd if not satisfied. Beware of imitations. Insist on "Tip-Top". Write us for ...

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost. Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

DREER'S "Riverton Special" Plant Tub

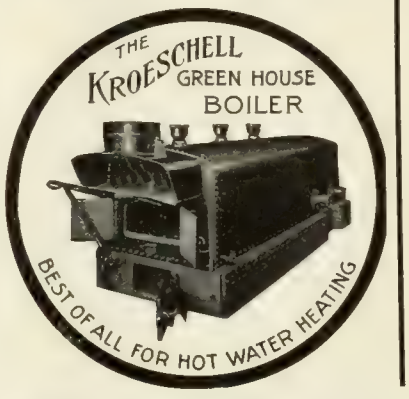


No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	58.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

Order Now!



Kroeschell Bros. Co.

466 W. Erie St. - - CHICAGO

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

SITUATION WANTED as head gardener for private place or as foreman on retail place; 16 years' practical experience in cut flowers, pot plants; understand taking care of all outside work, can manage the help; middle-aged; single. Please state full particulars in first letter and wages. Address M. D., care of HORTICULTURE.

SITUATION WANTED by Englishman as gardener; 11 years' experience on first-class English estates, under glass and outside; two years in America. Best references as to ability, etc. Address RICHARD FRIBBENS, Owen's Greenhouses, Vineyard Haven, Mass.

FOR SALE

NURSERY
AND
FOUR GREENHOUSES

Owing to death of owner and desire of family to close out estate, a desirable farm, nursery and greenhouse property, 25 miles from Boston, is offered for immediate sale on easy terms. Sixty acres of land, including 12 acres nursery stock and 15 acres of growing crops, peach and apple orchards loaded with fruit. New greenhouse planted to carnations; 12 room dwelling with steam heat and electric lighting; outbuildings, wagons, horses, cattle, poultry, etc. Address "N. M.," care HORTICULTURE.

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 2.15-217 Havemeyer St., Brooklyn, N. Y.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 32,500,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

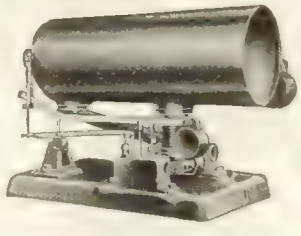


You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.



CONSULT US-ON-THE HEATING

ROB'T ROSS-JONES
HARRISBURG, PENNA.

GREENHOUSES BUILDING OR CONTEMPLATED.

Waynesboro, Pa.—A. C. Butterbaugh, one house.

Philadelphia, Pa.—Aschmann Bros., azalea house.

Swanton, Vt.—L. A. Lapelle, Fourth street, one house.

Monmouth, Ill.—C. A. Hewitt, two houses, 30 by 70.

Savanna, Ill.—Savanna Greenhouses, two houses, 20 by 80.

New Bedford, Mass.—A. B. Hathaway, house 20 by 85.

Ottawa, Ill.—Charles Cole, two vegetable houses, 28 by 240.

Clakamas, Ore.—Clakamas Greenhouses, two houses, 22 by 125.

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See?

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c postpaid. Samples free

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

FULL SIZE No. 2

PATENTS

Trademarks and Copyrights

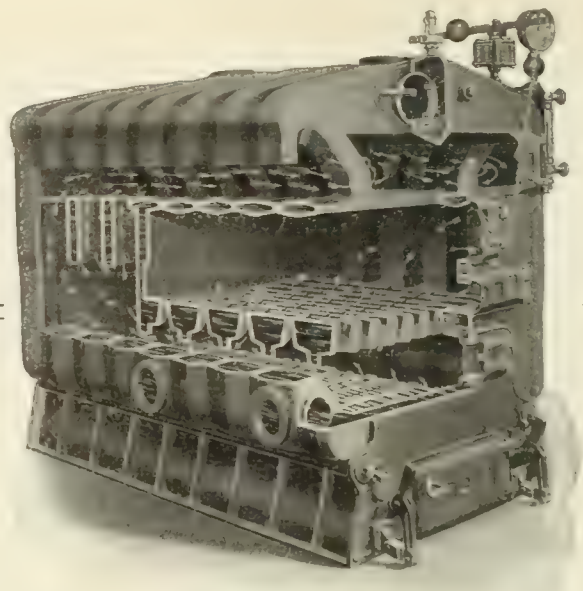
Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

The King "Ideal"



Burns Soft Coal

"King Ideal" Boiler

FOR

GREENHOUSES

A square Sectional Cast Iron Boiler designed especially for burning soft coal, so that it is

SMOKELESS

The King Ideal is a very practical heater which costs a trifle more than the old style rocking grate hard coal boiler but it

Saves 1-3 of the Season's Fuel Bill

Write for Bulletin No. 41 and find out why the King Ideal Boiler like a King Greenhouse is the most profitable investment you can make.

KING CONSTRUCTION CO.

28 King's Road. NORTH TONAWANDA, N. Y.

"ALL THE SUNLIGHT ALL DAY HOUSES."

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Greenhouse Materials FURNISHED AND ERECTED

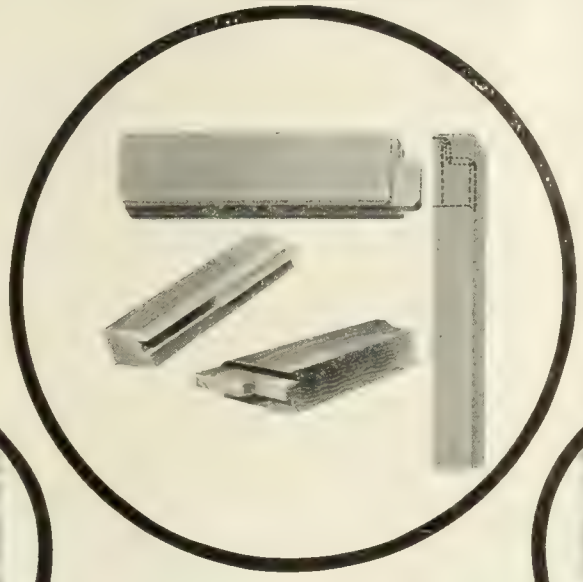
IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

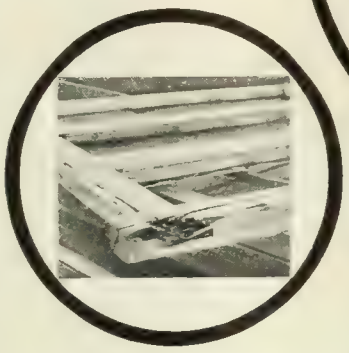
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street

JERSEY CITY, N. J.



This is what happens to open mortise joints. They cost less to make—but oh, what a difference in their lasting.

We don't have to leave the "horns" or ends on our "Sash That Last" to keep the joints from "breaking out." Even if they are left on, open mortise joints quickly rot out.





Don't let anybody's clever sales talk blind you into thinking that open mortise joints are equal to blind mortise ones. Sash That Last are blind. They outlast three to one of the others.

Buy Sash Now

YOU have got to have some more sash—there's no getting around that. "Get them, then you've got them." At odd times when work is a little slack you can set some of your men painting and glazing them. Then when you are ready for the sash, the sash will be ready for you.

The man who looks ahead is the man who gets ahead.

But don't buy any old sash just because the price is cheaper. The price is cheaper, but the sash are not. No cheap sash ever is cheap. Our Sash That Last **are cheap,** because they are made to last and **do last.**

We make our Sash That Last, so they **will** last, without regard to cost. We make them too good. But they do make lots and lots of friends **for us,** which, of course, makes money for us in other ways. So we sell our Sash That Last at nearly cost and consider it the very best kind of advertising.

We mailed you a circular last week giving some special prices on lots of 25, 50 and 100 or more. If you have mislaid it, send along your order just the same, and we will see that you get the special price.

Every sash is guaranteed to be as claimed. If you are not fully satisfied, send back the sash and back will come your money, including any freight you paid.

P. S.—Can't find out of a single case of sash ever being returned. Looks like we are pretty safe in making that money-back offer.



Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.



ERECTED FOR J. ROSS CAMPBELL, CYNWYD, PA.

B. D. KING IS THE GARDENER

THAT QUESTION OF PRICE

BY way of illustration, let's take an automobile costing $5,000 and another $4,000. The design of the body of both is practically the same. To the casual observer one is as good as the other. You buy the $4,000 car, but you say to yourself, "some day I'll have one of those other cars. This one of mine is all right, but that other car certainly has the stuff in it."

By the same token, some curved eave greenhouses may look like the U-Bar. They may answer a certain purpose, but they haven't "the stuff in them" that the U Bar has. That's why the U Bar costs more. It has "the stuff" in it.

A complete framework of glavanized, aluminum finished, steel U Bars must of course cost more than express roof bars. The many little niceties of finish those things you say delight in, also cost. The best thing in anything, from cheese to greenhouse, cost more. Cost more because they are worth more.

There are many reasons why U Bar Greenhouses are worth more. Just how much more, we would like to both tell and show you—**mostly show.**

Send for catalog. Or send for us. Or both.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVIII. SEPTEMBER 27, 1913 No. 13

LIBR
NEW
BOTAN
GARL



View in Newport Autumn Exhibition

Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, $1.00

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

Christmas Peppers

New Cluster Pepper, Celestial Peppers. Strong plants with fruit, from 4½ in. pots, $1.50 per dozen, $12.00 per 100.

Table Ferns, fine plants from 2¼-inch pots, best assortment, $3.00 per 100; $25.00 per 1000.

Primroses, Obconica, 2½-in. pots, the very best strains, strong plants, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates. Cash with order.

Rubber Plants, strong stock from 6-in. pots, 20 to 24 inches high, at $6.00 per doz.

Frank Oechslin, 4911 Quincy St. CHICAGO

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case)	$1.25	$8.50
14 ctm. bulbs (1000 to case)	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Poinsettia Pulcherrima

Nice strong plants from 2½-in. pots, $5.00 per 100; $45.00 per 1000.

ANTON SCHULTHEIS
316 19th Street, COLLEGE POINT, L. I., N. Y.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St.
Tel. 2890 Bedford BROOKLYN, N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.

1 bale	$3.50	5 bales	$15.00
2 bales	6.50	10 bales	29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

ORCHIDS

Holiday Flowering Stock

2000 PLANTS IN SHEATH

CASE LOT PRICES

One year established. Double Value to purchaser. QUICK RETURNS.

Will you have all the flowers you want in December? Special list ready. Cattleyas, Dendrobiums, Oncidiums, Laelias, etc.

FREEMAN ORCHID COMPANY
G. L. FREEMAN, Mgr.
FALL RIVER, MASS.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.
11 Warren Street, New York, N. Y.
Write for quotations

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE, May 17th, page 750.
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale	$3.80	10 bales, each	$3.40
5 bales, each	3.60	25 bales, each	3.20

Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

GERANIUMS

We have 300,000 in 3-inch pots ready for immediate shipment, at $3.00 per 100, $25.00 per 1000, in the best collection of Standard Varieties, Double and Single, in the country.

Will have 200,000 in 2-inch pots ready October 1st, at $2.00 per 100, $18.50 per 1000, and an immense stock to follow.

LET US BOOK YOUR ORDER FOR FUTURE SHIPMENT

We are booking orders for Dahlias and Cannas, for the coming Fall and Winter delivery. *Send for list if interested.*

R. VINCENT, JR. & SONS CO. . . White Marsh, Maryland



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 231 West 42nd St.

553 Lake St., Kendallville, Ind.

LIST OF ADVERTISERS

Page
Advance Co.....455
Albany Cut Flower Ex.....446
Allen, J. K.....446
Am. Importing Co. 443
Anderson, S. A..441
Aphine Mfg. Co.453
Aschmann, G....426
Atlanta Florist Co. 444
Ayres Co., S. Bryson 439
Badgley, Reidel & Meyer.....446
Balsley, Harry..454
Barnard, W. W. Co. 439
Barrows & Son..428
Bayersdorfer, H. & Co.....443
Bay State Nurseries 436
Bloomingdale's. 440
Bobbink & Atkins 437
Boddington, A. T. 437
Bolgiano & Son, J. 439
Boston Florist Letter Co.....444
Breck, J. & Son.439
Breck-Robinson Nurseries 436
Breitmeyer's, J. Sons 440
Bryan, Alonzo J.426
Burnett Bros....439
Burpee, W. A. & Co. 439
California Florist 441
California Seed Growers' Asso.439

Page
Carbone 441
Chicago Carnation Co.....444
Childs, John Lewis 428
Clarke's, D. Sons 440
Clark, Everett B. Seed Co.....438
Conine, F. E. Nursery Co....437
Cocke, Geo. H...442
Cowee, W. J....446
Craig, Robt. Co.426
Dards 440
Dawson, H. S....428
Detroit Flower Pot Co.....454
Dorner & Sons Co. 428
Dreer, H. A..... 435-455
Dunlop, John H.441
Dysart, R. J....447
Eastern Nurseries 428
Edwards Folding Box Co.....444
Elliott's, W. & Sons 439
Eppstein, Julius.441
Ernest, W. H....454
Esler, J. G.....455
Eyres 440
Fairfield Landscape & Nurseries Co.....437
Farquhar, R. & J. & Co.....426
Ford, W. P.....446
Forrest, Frank H. 441
Fottler, Fiske, Rawson Co....439
Froment, H. E..446

Page
Framingham Nurseries 437
Franklin Davis Nursery Co....437
Freeman Orchid Co. 426
Galvin, Thos. F..441
Gasser, J. M. Co.441
Goodsell, P. H...437
Grey, T. J. Co..439
Gude Bros. Co..440
Hail Association.455
Hall & Robinson.441
Hammond Paint and Slug Shot Works 453
Hart, Geo. B.....447
Heacock, Jos....426
Heinecken, Otto.439
Henderson, A....426
Hess & Swoboda.440
Hews, A. H. & Co. 454
Hill, E. G. Co...447
Holland Nurseries 436
Hilfinger Bros...454
Holm & Olson...440
Hudson Carbon Co. 453
Industry Moss & Peat Co.....426
Interstate Tobacco Co.....453
Jacobs & Sons, S. 455
Johnson, J. Oliver 439
Johnston Bros...441
Jones, Robert Ross 455
Kasting, W. F. Co. 447
Keller, J. B. Sons 440

Page
Kervan Co.....446
Kelway & Son...439
King Construction Co.....455
Kramer, F. H...441
Kroeschell Bros..455
Kuebler, W. H..446
Lancaster Co. Nurseries 436
Lager & Hurrell.426
Lemon Oil Co...453
Leonard Seed Co.439
Leuthy, A. & Co.428
Loechner & Co..426
Lord & Burnham Co. 456
Low & Co., Stuart 436
MacMulkin, E...441
MacNiff Horticultural Co....436
May & Co., L. L.441
McConnell, Alex..440
McCarthy, N. F. Co. 444-447
McCray Refrigerator Co.....427
McHutchison & Co. 428
McKenna & Sons, P. 441
McKenzie, John..426
McManus, Jas...446
Michell's Seed House 438
Michigan Cut Flower Ex.....444
Millang, Chas....446
Montreal Floral Exchange 446
Moore, Hentz & Nash 446
Murray, Samuel.440
National Nurseryman 437

Page
Niessen, Leo Co.444
N. Y. Stable Manure Co.....453
Oechslin, Frank.426
Olmsted Bros....436
Ouwerkerk, P...436
Park Floral Co..440
Palmer, W. J. & Son 440
Parshelsky Bros.455
Penn the Florist.441
Pennock-Meehan Co. 445
Pierce Co., F. O.455
Pierson, A. N.....428
Pierson, F. R. Co.428
Plant Food Co., 20th Century...453
Poehlmann Bros. Co. 444
Pollworth, C. C.440
Pulverized Manure Co.....453
Quaker City Machine Co.....455
Reed & Keller...446
Reinberg, Peter..444
Rice, M. Co.....441
Robinson Co., H. M. 446
Roehrs, J. Co....426
Roland, Thomas.428
Rolker, A. & Sons 428-454
Rosery, The.....440
Sander & Son...426
Scott, John.....426
Schling, Max....441
Schultheis, Anton 426
Schwake, Chas...427
Sheridan, W. F.446
Sharp, Partridge & Co.....455

Page
Siebrecht, Geo. C.446
Siggers & Siggers 455
Skidelsky, S. S. & Co.....439
Smith, P. J.....446
Smith & Co., E. D. 437
Smith, W. & T. Co. 437
Smyth, Wm. J..440
Sprague, J. H...426
Stearns, A. T. Lumber Co.....455
Syracuse Pottery Co. 454
Tel-Wood 435
Totty, Chas. H..428
Thorburn, J. M. & Co.....439
Traendly & Schenck 446
Valentine, J. A..440
Van Assche, F...455
Vincent, R., Jr., & Sons Co.....427
Wants, For Sale.454
Ward, R. M. & Co. 428
Weber, F. C.....441
Weeber & Don...438
Welch Bros.....444
Whittier & Co., W. B. 437
Wilson, Robt. G.440
Wood Bros.....428
Woodrow & Marketos 446
Young, John.....446
Young & Nugent.440
Zangen, O. V....438
Zinn, J. A.....441
Zvolanek, Ant. C.439

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 448, 449, 450, 45

USE

HORSESHOE BRAND

GIGANTEUM

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,
CROMWELL CONN.
Bedding Plants and Roses

CHARLES H. TOTTY
CARNATIONS AND CHRYSANTHEMUMS
MADISON, N. J.

CHILDS' GLADIOLI
are noted the world over for
SUPERIOR MERIT
John Lewis Childs
FLOWERFIELD, L. I., N. Y.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Carnations

Look after the disbudding from now on. Not only will it enlarge the bloom, but it will also help to stiffen the stems. If disbudding is ever needed it is needed at this season, when the carnation is naturally not at its best. The second tier of wire and string supports will now be needed, so the stems will grow straight and upright. Some of the taller ones will also soon need the third support. It can be put on first as easily now as later and it is not in the way, so put it in place as soon as convenient. One great mistake which inexperienced growers often make is to close the ventilators tight in the evening after a bright day, thinking to corral a lot of heat in a house, to keep it warm over night. Not only will this always fail to accomplish the desired result, but there is no surer way of starting leaf-spot, or many diseases that are so much complained of these days. I have believed in ventilation continually for years and I still find that plenty of fresh air is the best preventive of disease. It makes no difference whether the temperature is abnormally high or low, fresh air will aid the plants to bear the unnatural conditions.

Forcing Spanish Iris

Spanish iris may be planted now or even in October, in boxes about 5 inches deep and of convenient size for handling. Use a compost of old hotbed manure and sandy loam or a similar mixture. Plant deep enough so that the upper tips are exposed just a little after watering. Cover the boxes with hay or straw to keep in the moisture. Set the boxes out in frames and cover with sash when it becomes necessary, protecting enough to keep the tips from freezing. Bring into the house for forcing in January or February, giving a moist atmosphere and a temperature of 45 to 50 degrees. Bring in at different times to secure a succession of bloom. The time required to obtain blooms will be about six or eight weeks. Do not let them become dry at the root and keep the floors damped down to produce needed moisture in the atmosphere. To insure finer flower heads give some liquid manure once a week and then increase to twice a week until the blooms show color. Keep plenty of ventilation on all occasions as this is one of the most important points in growing fine iris.

Hardy Stock for Spring Sales

All florists who handle perennials for spring trade will easily recognize the value of having a good lot of this stock in pots. Stock that you have planted in the field is all right for planting while dormant, but where the planting season is prolonged for weeks, which is always the case, this is where pot plants fill the bill. Now is the time to attend to this work. Dig them up now and pot in 4 or 5-inch pots in good soil and place them in a frame where later on when the hard weather comes they can have some protection. Give them water and attention until they get thoroughly rooted. Along in January you can bring them into some very cool house and grow on slowly. These plants will command a good price in the spring.

Poinsettias in Pans

Now is the time to make up pans of poinsettias. "Pan" is hardly the right term. The seed-pan is too shallow. The azalea pot, or "half-pot," as it is better known, is the correct thing. These half-pots should be made up from small plants in 2½-inch pots. It is not safe to make them up from plants taken from the cutting-bed, as some may start to grow strongly and others only feebly. Select plants which have been well-rooted in the little pots, plants of about equal height and vigor, short-jointed and of firm growth. An 8-inch pan will meet with the readiest sale and next a 9-inch and 10-inch. A few larger than this can be filled, but there will be much less demand for them. An 8-inch will make room for six plants; a 9-inch, seven plants, and a 10-inch nine plants. If you want any 6-inch or 7-inch pans wait three weeks before filling them, because if filled too early the soil will become exhausted before time to sell, and exhaustion of soil means a loss of foliage. Although the poinsettia is a tropical plant and should not be allowed to be in a house below 60 degrees at any time, the loss of foliage is not so often caused by low temperature as by impoverishment of the soil; so the soil for the pans should be rich. A rather coarse heavy manure and a 5-inch pot of bone meal to a bushel of the compost will do quite well.

Timely Propagating

If you are among those who are anxious to work up a large stock of certain plants in the bedding line, or wish to propagate a large number of certain varieties from a small stock on hand, it is not too early to get started. The present is the proper time to propagate coleus, as well as alternanthera, perilla, achyranthes, verbenas, petunias, salvias, heliotropes, fuchsias, German ivy, etc. All will root in a short time. For alternantheras it is better to use flats of convenient size, about 2 or 3 inches in depth, using either sandy soil or a layer of soil in the bottom and a layer of sand on top. Insert the cuttings of about 2½ inches in length, and they can remain in these flats all winter. They will stand practically still all winter, and require a rather dry atmosphere to keep in good shape until spring comes, when, with longer days and a little bottom heat, they will soon make up for lost time. Alternantheras should be kept in a house where the temperature is about 65 degrees at night and a high degree of moisture in the atmosphere is needed for them to do anything like well.

Oxalis

These make good pot plants for winter flowering, with their graceful mass of bright cloverlike foliage, and endless array of golden-hued flowers throughout the winter and spring. Dormant bulbs of the different varieties should now be planted. The pans or pots should contain sufficient coarse material in the bottom to help drain off any surplus of moisture that may be in the soil. Give them a porous and somewhat sandy soil, liberally enriched with well-rotted manure. Place two or three bulbs in a four-inch pan and keep in a temperature of 55 degrees at night.

Mr. Farrell's next notes will be on the following: Irises; Lilium Formosum; Otaheite Orange; Orchids; Peonies; Chrysanthemum Stock Plants.

HORTICULTURE

VOL. XVIII SEPTEMBER 27, 1913 NO. 13

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—View in Newport Autumn Exhibition.
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Carnations—Forcing Spanish Iris—Hardy Stock for Spring Sales—Poinsettias in Pans—Timely Propagating—Oxalis—*John J. M. Farrell*..... 429
ROSE GROWING UNDER GLASS—Tying the Teas—The Rainy Weather of the Past Week—The Cold Nights—Sulphur on the Steam Pipes—Fumigation—*Arthur C. Ruzicka*..... 431
BRITISH HORTICULTURE—*W. H. Adsett*..... 431
POLYPODIUM MANDAIANUM—Illustrated..... 432
PURIFYING THE LISTS..... 433
ANTHERICUM MANDAIANUM—Illustration..... 433
CLUBS AND SOCIETIES—Newport Horticultural Society, Illustrated—Lancaster County Florists' Club.. 434
Gardeners' and Florists' Club of Boston—Unclaimed Prizes at Minneapolis—Cook County Florists' Association—Club and Society Notes..... 435
SEED TRADE — Peas — Beans—Corn—Small Seeds—Notes 438
OF INTEREST TO RETAIL FLORISTS—New Flower Stores—Steamer Departures..... 440
Flowers by Telegraph..... 441
AMERICAN INSTITUTE EXHIBITION..... 442
ORCHID GROUP AT "HOLLAND HOUSE" SHOW, LONDON—Illustration 443
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati..... 445
New York, Philadelphia, St. Louis..... 447
OBITUARY—A. D. Perry—Louis Stieffel—Joseph Emory Arnold—John Spencer Williams—George McWilliam 454
MISCELLANEOUS:
Flowering Foxgloves in March..... 433
Cincinnati Notes..... 440
St. Louis Notes..... 441
News Notes.....441-452
E. S. Miller Retires from the Bulb Business..... 442
Chicago Notes..... 443
In Bankruptcy..... 447
Personal 447
Dahlia Show at Michell's..... 452
Incorporated 452
Quarantine Upon Potatoes..... 452
Patents Granted..... 452
Fireplace Days, poetry..... 452
Walter Mott's Notes by the Way..... 453
Greenhouses Building or Contemplated..... 454

Pollen stealing

We, in this country, can hardly appreciate the extent to which the science of orchid hybridization has been and is now being carried on in Great Britain nor realize the intense interest and infatuation which attaches to this pursuit among those who have taken it up either as a hobby or as a commercial enterprise. Under existing conditions the few grains of pollen in the bloom of a pedigreed hybrid possess a subjective value which almost makes the historic tulip craze in Holland "look like thirty cents." To remove the precious grains from the open flower is the work of but a second if one understands how, and we are told that petty thieving of this sort has become so prevalent at the exhibitions that the owners of valuable specimens fear to let them out of their sight. The offense seems to us a most contemptible one and merits punishment just as severe as would the theft of money or other property.

House cleaning

The announcement by the Secretary of the American Carnation Society which appears in our correspondence this week, to the effect that an effort is being made to purge the excessively voluminous lists of carnation varieties comes as welcome news. We hope, however, that the work outlined in Mr. Baur's notice is to be only a beginning, for many times the number represented in the list given might well be eliminated, so far as any practical value is concerned. It is quite probable that many of the recorded introducers would be more than pleased if their connection with the exploiting of more or less worthless failures could be buried in oblivion, and surely nobody else would shed any tears either now or hereafter if this were done. Not only the carnation but the rose, the sweet pea, the chrysanthemum and—just now the dahlia and the gladiolus especially, are all carrying a useless burden of names which serve no purpose other than to encumber and confuse. Let's get rid of them.

The golden road

No more valuable asset, as it appears to us, can a grower and introducer of novelties possess, than the reputation of scrupulous care and thorough testing out of every candidate for favor in the horticultural world before he will attach to it his name and endorsement. Had this course been the rule during the past five and twenty years, for instance, and "the rogue's march" been played to a few of the humbugs, what a different aspect would our chrysanthemum, rose and carnation lists present today and what a multitude of disappointments would have been prevented! Perhaps it is safe to say, however, that no man can ever be quite an infallible judge of his own productions, no matter how impartial he may try to be. When we see the dissemination of a novelty such as Polypodium Mandaianum, for example, proclaimed with unqualified laudation, naturally our faith in it all is greatly strengthened by the fact that the encomiums are not alone those of its fond and devoted sponsor but that they also reflect the conclusions of disinterested and capable judges repeated with unvarying unanimity at home and abroad through a period of years. Looking from this viewpoint alone the great possible utility of the special societies, directly or indirectly, to everyone engaged in horticulture looms up most convincingly and the price of the maintenance of these organizations is nothing as compared with the service they are capable of rendering.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Tying the Teas

With the Tea roses it is well to heed the danger that will arise from bunching up the plants too much while tying. The old method of running a string around the whole plant with the stake for the center, is a very poor one indeed, and we can pity the man who ties all his roses thus. The loss of the foliage in such cases is very large, and that is not the only way that the plants suffer. By carefully investigating the difference we find that the plants thus tied do not break from the bottom very freely, not as freely as the plants where the shoots have been tied separately, or at least tied to one another, so that the bottom of the plant has some chance to get some of the sunshine that we get at times. Needless to say, the plants that lose all their bottom leaves will become very hard, and not only will it be difficult to get them to break from the bottom but it will interfere with the flowing of the sap, which will mean flowers of a poorer quality.

The Rainy Weather of the Past Week

We do not know if all the rose growers that happen to read these notes have experienced any rainy weather, but with us we consider it a very trying time for the rose grower, especially those that have given their plants a little more water than was necessary, and find that their plants are rather soft. Mildew will threaten the soft growths and foliage and it will be only with the greatest care that the disease will be kept at bay. It has been almost too warm to use steam, but a little of it can be turned in during the night, if the growers are wide awake. And it pays to be awake on occasions such as these. Where a trustworthy night fireman is on duty the grower need have very little fear that his roses will be damaged in any way through neglect.

The Cold Nights

Then, too, there are the cold nights that have already well set in, and the grower who will not turn on sufficient heat to allow them to be comfortable, will have a good chance to regret his actions. A pipe or two of steam is all that may be necessary, and the benefit thus derived will far exceed the expense for the coal that is burned or the labor expended on the fires, and the care of the boilers during the night and early hours of the morning.

Sulphur on the Steam Pipes

Whether mildew is visible or not it is well to apply a little sulphur to the pipes here and there all through the houses, allowing one one-inch pipe for twenty feet of width. This pipe can be safely painted every ten or fifteen feet, painting a piece about two feet long. This will be sufficient to kill any of the mildew spores that may be lounging around awaiting a chance to work havoc with the plants should conditions become ideal for their rapid development. It is a mistake, however, to use too much sulphur on the pipes, and it is dangerous as well, for sulphur fumes will kill the plants much quicker than the mildew itself if they are allowed to become too strong.

Fumigation

Never for a moment forget this important item in the routine of rose growing. Whether you decide to use hydrocyanic acid gas or some of the tobacco products that are offered to the trade at the present time, never let a week go by without its weekly fumigation. If you spray let it be the same. Never let the fly make its appearance, for once it does it will take quite some time to clean it out again. It is much better to give the plants a mild dose of either smoke or spray, and do it oftener, than to apply a heavy dose at long intervals, for the latter is very injurious to the plants, to say the least, and the harm thus resulting will be traced, not only in the growth of the plants but in the flowers themselves.

BRITISH HORTICULTURE.

Trade Chances.

Sutton & Sons already control one of the largest seed firms in Great Britain. The firm has been established over a century, and a large army of employees are engaged in the seed warehouses and extensive trial grounds at Reading. Messrs, Sutton's business is now to be extended by the acquisition of the seed branch carried on by Veitch & Sons, at Chelsea, for the last 60 years. Messrs. Sutton have also purchased from Messrs. Veitch the chief portion of the seed grounds at Langley, near Slough. The nursery business of Messrs. Veitch will still be carried on for sometime, until Sir Harry Veitch finally retires from the business.

A Dahlia Display.

Although growers have experienced an unfavorable season there was a big display of dahlias at the annual show organized by the National Society, at the Crystal Palace, Sydenham, on Sept. 9 and 10. The quality of the blooms in many cases was not up to the usual standard. There was an extensive show of the new collarette and paeony-flowered kinds, which attracted considerable notice. Cheal & Sons showed Crawley Star, the new cosmea-flowered dahlia. This novelty has been awarded a first-class certificate from the Society, in addition to other awards.

Autumn Roses.

The National Rose society had every reason to be satisfied with its autumn show in London, on Sept. 11th and 12th. Some excellent groups were staged by the trade. Paul & Sons, received a gold medal for their collection. The seedlings, of course, aroused keen interest. Once again the Irish raisers were well to the fore. Alexander Dickson & Sons, Ltd., received a gold medal for Red Letter Day, and another for Edward Bohane, two new H. T.'s. S. McGredy & Son, obtained a gold medal for Edgar M. Burnett, a new H. T. The same awards were made to Hugh Dickson for Murial Dickson a new hybrid brier; and to the Rev. J. H. Pemberton, for Moonlight, a new H. T. The table decorations were a special feature. The first prize was secured with a pleasing arrangement of Melody, the popular yellow H. T.

W. H. Adsett

POLYPODIUM MANDAIANUM GOES FORTH



Polypodium Mandaianum.

An event of more than passing interest is the distribution of the noble fern, Polypodium Mandaianum, which commenced this week at the greenhouses of W. A. Manda at South Orange, N. J. This remarkable fern has been in Mr. Manda's possession for over ten years, during which time he has been dividing and multiplying it assiduously until now the stock amounts to about 25,000 plants, large and small. Since the announcement of the high honors awarded to this plant at home and abroad, orders have been coming in fast and practically every salable plant is sold in advance. Mr. Manda expects it will take at least two weeks to pack and deliver the stock. Every plant is packed as though going to an exhibition, each individual frond being tied several times to an upright stake and the greatest care being exercised to insure its delivery in perfect condition. Mr. Manda's affection is so bound up in this plant that we honestly believe he feels at heart deep regret at seeing it go out.

The beautiful fronds of Polypodium Mandaianum, laciniated, crimped and undulated in the most charming manner, have a place of their own as cut foliage in decorative work. No other green can rival its effect and the texture is so firm that it lasts in cut state for many weeks without changing. The plant thrives best in shallow pots or pans, being a surface grower, and seems to be equally happy if merely attached to a clump of osmunda fibre and suspended against the greenhouse wall, where water seems to be its only requirement for robust growth. Knowing this, the enormous size of the fronds and their remarkable substance is all the more astonishing.

The houses filled with the plants have been a sight worth seeing. A specimen at the head of the houses has a spread of ten feet. Others fastened to the top of dead tree-fern stems seem perfectly at home and form stately standards, while large clumps hang on the walls in the manner of stag's horn ferns.

While on the subject we might mention another fern which impressed us on a recent visit to South Orange, as a valuable acquisition. It is a sport from Nephrolepis tuberosa which originated with Mr. Manda and has been named plumosa. The fronds are long, narrow and arched, the tips of the pinnæ being beautifullly plumose and of a pale green which makes a striking contrast with the very dark color of the rest of the frond. This seems to be a tougher fern than the various well-known forms of N. exaltata and although the plants grow quite dense in the centre indiscriminate watering does not discolor or otherwise unfavorably affect the fronds.

Of Anthericum Mandaianum, introduced not long since by Mr. Manda, its only drawback seems to be that it propagates too fast. Anybody can get up a big stock of it in no time. It is strongly variegated and the leaves are very tough—not brittle as in the old, well-known, Anthericum variegatum. This plant received an award of merit in England and was also one of the group of twelve new and rare plants which won the first prize at the London International, last year.

PURIFYING THE LISTS.

HORTICULTURE PUBLISHING CO.:

Gentlemen:—We are sending you a list of names which we propose to drop from the carnation register, unless we succeed in securing data which we now lack.

Will you kindly publish this list, with the request that anyone who can supply the color, parentage, originator, disseminator, and date of dissemination of any variety in the large section of the list, will please communicate the same to this office?

We have been working on this carnation register through a period of several years and have complete data on most of the varieties listed. As soon as it becomes apparent that the register is as complete as it is possible to make it, the American Carnation Society proposes to publish it in pamphlet form and distribute it among its members.

It is calculated that this register will be of great benefit to those who secure copies, as it will contain full data on practically every carnation introduced within the past 40 years. It will stand as the highest authority in carnation nomenclature.

Yours very truly,

A. F. J. BAUR,

Sec'y American Carnation Society.

Names for which we have neither description nor disseminator.

Amado	Jupiter
Baltimore	Laura Vick
Bride of Erlescourt	Lettie Coles
Bonnibell	L'Encante
Cleopatra	L'Excellent
Constancy	Lyone
Dards	Lyon's White
Defender	Manhattan
Diana	Marina
Dora White	Marg. Rath
Dosoris	Mrs. Carnagie
E. G. Clarke	Mrs. Mailander
Emma Lowry	Mrs. S. M. Inman
Elsie Ferguson	Mrs. T. B. Reed
Emma M. Thompson	Mrs. V. R. Hoxie
Encante	Mrs. Wm. McKinley
Ethel	Nita Berringer
Evening Star	Northern Light
Fillow's New Red	P. O'Mara
Flamme	Pilgrim
Gen. Burnside	Queen of the West
Gen. Sherman	Rebacco
Gladys Ray	Robin Hood
Golden State	Scarlet Wave
Golden Gem	Scribner
Grace Bollinger	Seneca Chief
Guiding Star	Sensational
Harriet Bradford	Sen. Crane
Helen Dean	Silver Ball
Hilda	Thorley
Hon. T. B. Reed	Th. H. Spaulding
Hon. Wm. McKinley	Twilight
Immaculate	Uncle Walter
Intensive	Utica
Invincible	Yorktown
Iris Miller	Young America
Jahns White	Anna H. Shaw
Jas. Dean	Annie Pixley
John Carbon	Azalea
John Hinkle	

Varieties registered but not disseminated.

Allspice	Marie Rachael Thompson
Badger State	Mrs. Robt. Hartshorn
Climax	Mrs. Mary S. Fleming
Daybreak Perfection	Oregon
Earlham	The Empire State
Ft. Wayne	Winsome
Genevieve	
Gibson Beauty	

Names which are synonyms of older sorts.

American Wonder..	Syn. of	La Favorite
Anthony's Pink.....	"	Chas. Sumner
B. A. Elliott.....	"	Secy. Hunt
Glowing Coal.....	"	Portia
Lyons White.....	"	Edwardsii
Peerless.....	"	Edwardsii
Queen Scarlet.....	"	Portia
Robt. Craig.....	"	Pres. Garfield
Scarlet Queen.....	"	Portia
Sport.....	"	Emp. of Morocco

FLOWERING FOXGLOVES IN MARCH.

Editor HORTICULTURE:

Will you please let me know if foxgloves can be flowered in February or March if given a few frosts now in the pots, the same as Campanula pyramidalis and with the same treatment, or is it advisable to not let them freeze. Your answer to this will be a great help to me.

Dalton, Mass. C. S.

Nahant, Mass., Sept. 17, 1913.

Dear Sir: I have had no experience in forcing foxgloves, but I think with gentle forcing they might be had in flower by March. I think several good freezings would help. T. ROLAND.



ANTHERICUM MANDAIANUM.

CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The autumn exhibition of this Society, which was held September 16-17 and 18 in Convention Hall at the Newport Beach, proved to be a decided success financially and otherwise. This new hall, which has a floor space of 80 x 154 feet, seemed at first to be much larger than necessary for the exhibits, but, fortunately, many entries were made for groups and large specimen plants which made a fairly well filled and very attractive hall, the decorations that have been in place during the summer blending nicely with the exhibits. The main exhibitors in groups and specimen plants were: Vincent Astor, gard. James Boyd; E. J. Berwind, gard. Bruce Butterton; Mrs. H. McK. Twombly, gard. Alex. Fraser; H. M. Brooks, gard. James Bond; R. L. Beeckman, gard. John B. Urquhart, and the Wilson Nurseries of Middletown, R. I., the latter with hardy evergreens in tubs.

Following is a condensed list of first awards:

Plants.

Group of palms, ferns, foliage and flowering plants, James Boyd. Group of palms and other foliage plants, Bruce Butterton. Specimen Kentia in 12-in. pot, specimen Phoenix in 12-in. pot and specimen palm, any size, J. Boyd. Adiantum Farleyense and A. Gloriosa, J. B. Urquhart, 1st in each. Nephrolepis, any variety, J. B. Urquhart. Any other fern, dracaenas, crotons and pandanus, James Boyd, 1st in each. Adiantum Farleyense, J. B. Urquhart. Nephrolepis, Miss Fanny Foster, gard. C. M. Bugholt. Dish of foliage plants, Alex. Fraser. 25 Gardenia blooms, J. Boyd. 25 American Beauty roses, J. B. Urquhart. 25 outdoor roses, J. B. Urquhart.

Dahlias.

Collection Cactus by private gardeners, C. M. Bugholt. Collection Cactus by commercial growers, Sisson & Thurston. 20 varieties and 12 var. C. M Bugholt. 12 Decorative and 12 Show, W. D. Hathaway. 25 single red and 25 white, J. B. Urquhart. 25 single pink, C. M. Bugholt. 25 single yellow, Sisson & Thurston. 25 red, any type, 25 pink, any type, 25 yellow, any type, 25 white and 25 any other color, C. M. Bugholt. 12 Peony flowered, Sisson & Thurston.

Fruit.

Grapes white, and grapes black, J. B. Urquhart. Peaches, Samuel Speers. Muskmelon, W. J. Matson. Apples, R. B. Almy. Other fruits, Samuel Speers.

Vegetables.

Twelve kinds of vegetables, Stumpp & Walter cup to John Fletcher. Collection of 24 varieties, A. T. Boddington prize, J. B. Urquhart.

Miscellaneous Specials.

Six vases cut flowers, John Forbes. Display outdoor flowers, also table of decorative foliage plants, James Boyd. Display of gladioli, for cup given by John Lewis Childs. E. Rollins Morse, gard. D. Foley. Weeber & Don prize for collection of tomatoes. J. Boyd. Michell silver medal for the most meritorious exhibit, J. B. Urquhart, for a handsome plant of Adiantum Farleyense gloriosa. Michell bronze medal to Alex Fraser for six large ivy plants trained in pyramid shape. Arthur Griffin of Woburn, Mass., was awarded a certificate of merit for Gloriosa Rothschildiana hybrids.

Decorative Work.

The table decorations on the third day were not equal to previous years, at least in number, but the one put up by Secretary Wm. Gray was very favorably commented on. The flowers used were Mrs. Aaron Ward roses. David Boyd, an assistant at the Vincent Astor place, also deserved much credit for winning the first prize in the R. L. Beechman class. In the three classes of fancy baskets and centre pieces Alex. Fraser was the champion.

The judges were Colin Robertson, Fred Carter and A. L. Dorward, of Newport; David McIntosh, Tuxedo Park, N. Y.; Arthur Griffin, Woburn, Mass.; and Robert Johnson, and they seemed to be as successful as judges generally are in satisfying the exhibitors.



View in Newport Autumn Exhibition

Sergeant-at Arms W. F. Smith and Secretary William Gray appear in the picture the latter standing by his tagle decoration, which was awarded first prize in the Miss F. Foster class.

The annual ball of the Newport Horticultural Society was held on the evening of the third day of the exhibition in the dance hall adjoining the one in which the show was held. This also proved to be a very successful affair in every way. The hall, a very large one, was well filled with willing dancers under the management of John T. Allan. James Robertson.

LANCASTER COUNTY FLORISTS CLUB.

In spite of the bad night a good attendance was had Sept. 18th. The exhibition was a little disappointing as we have very few chrysanthemum growers among us and two of those had their crops in so early that they were over. A vase of well-finished Golden Glow was exhibited by Fred Spinner and an unusual specimen of staghorn fern by Wm. Aherne of Columbia.

The programme consisted of a series of short questions the first of which was, "What do you consider the best protection for carnations when first planted in?" Answered by Amos Rohrer of Strasburg. He uses a light coat of whiting on the inside of the glass and syringes it off gradually so that by the time he has syringed it the third time the glass is clean, but he added that this would not be practical in houses that leaked as the whiting would wash off very easily. Another advocated the covering of the plants with newspapers until they had taken hold, but it was considered dangerous to do this on account of the likelihood of certain weather conditions arising that would create a stem rot tendency underneath the papers. Some used lime (air-slacked) and others mud as a shading on the outside of the glass.

The next question, assigned to W. B. Girvin, of Leola, was "How late in the season do you think it would be safe to plant Beacon or any other variety in order to insure a Christmas crop." Mr. Girvin said that the earlier he planted the better results he had for December blooming. After considerable discussion pro and con the question was left undecided as one too big for the size of our Club.

Ira Landis of Paradise, Pa., was assigned to answer "What do you consider the best method of growing daises, planting them in pots, boxes or solid beds? Mr. Landis was unable to be present but the other daisy growers all seemed in favor of the solid bed system of growing them.

Rudolph Nagle gave us a very interesting talk on his question, "Give report on any early 'mums you have been growing." He has had very good success, but the writer not being up on this end of the business would only create confusion if he attempted to give a synopsis of the talk.

For the meeting of Oct. 16th, Snapdragons, Midseason Chrysanthemums and the Growing of Greens will be up for discussion. Visiting florists or of the allied trades are always welcome at these meetings. A ladies'



IF YOU ARE IN NEED OF

HARDY PERENNIAL PLANTS

"Get them at Dreer's"

This Fall we are better than ever prepared to serve you with this class of stock and particularly call your attention to our *"Specials"*

JAPANESE IRIS GERMAN IRIS
HARDY PERENNIAL PHLOXES
DOUBLE HERBACEOUS PAEONIES

Send for our special circulars describing these if you have not already received copies.

Our ***Current Wholesale List*** describes all other seasonable stocks. Consult it before you place your orders.

HENRY A. DREER, Inc.

714 CHESTNUT STREET - - PHILADELPHIA, PA.

night is on the programme for November, and we anticipate a very good winter season. Co-operative buying will also come up in November, and the President asked that any buying that could be should be postponed until latter November or early December, as the committee having this in charge are hard at work getting up a practical system.

ALBERT M. HERR.

Lancaster, Pa.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club will hold a field day on Saturday, September 27, 1913, at the Dedham Nurseries of R. & J. Farquhar & Co. Members and friends are invited to take cars to Forest Hills, where special electric cars will leave on East Walpole line for Dedham at 1.30 P. M. sharp. Running time to Elm street, where nurseries are located, is 25 minutes from Forest Hills. It is hoped that a large number of members and others interested, including ladies, will join in this field day, which should prove one of profit and interest. Cars will leave at 5 P. M. on the return journey.

W. N. CRAIG, Secretary.

UNCLAIMED PRIZES AT MINNEAPOLIS.

C. N. Ruedlinger, Chairman of the Sports Committee at Minneapolis, writes that at the outing at Lake Minnetonka, August 23rd, at the S. A. F. convention in Minneapolis, there were two girls who did not claim their prizes—one a Miss Raymers, who won third prize in the girls' race of ten years and under; the other, Miss Nelson, who won third prize in ball throwing contest. Mr. Ruedlinger is unable to locate these parties. They may have their prizes by writing to him. His address is 2924 Aldrich avenue, South.

COOK COUNTY FLORISTS' ASSOCIATION.

The regular meeting of the Cook Co. Illinois Florists' Association was held Sept. 18 at The Tavern, Chicago. The picnic committee reported the financial results of the recent outing. A friendly communication from the Chicago Florists' Club was read by the secretary and a motion followed that the president appoint a committee to act for the Cook Co. Florists' Association. A vote of thanks was given the New York Florists' Club for the entertainment furnished on the train to the Convention at Minneapolis.

An exhibit of hardy carnations and cannas was given by Peter Pearson of Gunnison Ave. The club listened to a talk on insurance by F. Wallace.

CLUB AND SOCIETY NOTES.

The St. Louis County Growers' Club will meet on Wednesday evening, Oct. 1st.

The Lady Florists' Home Circle spent a very pleasant afternoon at their meeting at Mrs. Steidle's home in Olivette, Mo. The ladies presented Mrs. Steidle with a fine set of table linen.

The Annual Flower Show of the Dobbs Ferry Horticultural Association will be held Nov. 7th and 8th, in the Town Hall, Dobbs Ferry. The schedule is now being prepared and a copy will be sent to all applicants by H. Kastberg, secretary.

One of the best exhibitions in the history of the society was the Dahlia Show of the New Bedford (Mass.) Horticultural Society on September 19. Among the large exhibitors were James Garthly, representing the H. H. Rogers estate at Fairhaven, Mrs. H. A. Jahn, W. D. Hathaway, Forbes & Keith, Mrs. T. M. Stetson, J. I. Gurney and J. P. Rooney, gardener for Mrs. Frederick Grinnell.

As announced in our advertising columns, an auction sale which we believe will interest many of our readers particularly at this time, will take place at Macniff's New York salesroom, Tuesday, September 30. It is not often that such an opportunity is presented for securing large specimen palms and similar conservatory material.

BAY TREES

For sale cheap, sixteen large Bay Trees, height 7½ to 9 ft., diameter 4½ to 5 ft. Can be seen at Beverly Farms, Mass., and can be delivered at once. Address "HILLWOOD," care Horticulture.

PRIVATE ESTATE SALE

OF

DECORATIVE PALMS

Specimen Pandanus, Ferns and a general assortment of greenhouse stock

AT AUCTION

On Tuesday, September 30th, 1913

At Eleven O'clock A. M.

At 56 VESEY STREET, NEW YORK

PALMS 5 to 15 FEET HIGH

Also Local Consignments of Evergreens and 100,000 California Privet. In addition to the above we will offer a large consignment of Holland and French-grown Bulbs.

CATALOGUE MAILED FREE ON APPLICATION

THE MACNIFF HORTICULTURAL CO.

56 Vesey Street, New York

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ....

Immediate Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

FRUIT TREES FOR THE GARDEN

Of all shapes for Walls, Fences and Orchard Houses

PERGOLA ROSES, Pot Grown **ROSES, Dwarf and Standard**

in all the leading and newer varieties

PARTICULARS ON APPLICATION

During September and early October, Our Mr. H. A. Barnard will be in the United States. Address **Hotel Albert, University Place, New York City.** He would be glad to hear from anyone interested.

STUART LOW & CO., **ROYAL NURSERIES**

BUSH HILL PARK, ENFIELD, MDDX., ENGLAND

CALIFORNIA PRIVET

2 Years Old

12 to 18 inch,	$10 per 1000
18 to 24 inch,	12 per 1000
2 to 3 feet,	15 per 1000

Cash with Order

We also carry a full line of Nursery Stock and would be pleased to quote you on your full want list.

THE LANCASTER COUNTY NURSERIES

DAVID S. HERR, Prop.

R. F. D. No. 7 LANCASTER, PA.

WANTED

400 American Ash Trees, 3-4 inches in Diameter

Good clean specimens well furnished with symmetrical heads and fibrous roots. To be used in street work. In replying state when last transplanted and where located.

OLMSTED BROTHERS

Landscape Architects, BROOKLINE, MASS.

HOLLAND NURSERIES

Best Hardy Rhododendrons, Azaleas, Conifers, Clematis, H. P. Roses, Shrubs, and Herbaceous Plants.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, **North Abington, Mass.**

COLD STORAGE LILIES

SURPLUS CLEARANCE

ALL BULBS SOUND, DORMANT, AND IN GOOD CONDITION, AND WILL BE EXAMINED AND REPACKED BEFORE SHIPMENT

Spirea, Lilium Longiflorum Giganteum and Valley Clumps potted RIGHT NOW will flower around Christmas and New Year; Lilium Speciosums through and up till Easter—you will find them invaluable for all cut flower purposes. We make the following bargain offer till sold out:

Lilium Longiflorum Giganteum

	100	1000	CASE
6 to 8in., 400 bulbs in a case	$3.75	$35.00	$14.00
7 to 9in., 300 bulbs in a case	5.00	40.00	12.00

Lilium Speciosum Album--Cold Storage

	100	1000	CASE
8 to 9in., 225 bulbs in a case	$7.50	$50.00	$12.00
11 to 13in., 100 bulbs in a case	10.00	90.00	10.00

Lily of the Vally--Cold Storage

Large clumps, each containing about 25 pips, $2.00 per doz., $15.00 per 100.

Spirea, or Astilbe--Cold Storage

	100	1000
Gladstone. Enormous spikes of pure white flowers	$6.00	$55.00
Queen of Holland. One of the finest; grand florist's variety, white	8.00	75.00

Aruncus. A grand and popular variety, producing splendid spikes of flowers 3 to 5 feet in height. Flowers are creamy white, and are borne in feathery panicles. 15c. each, $1.50 per doz.. $10 per 100.

Palmata rosea. The beautiful deep pink hardy Spirea. An excellent companion for the white varieties. 15c each, $1.50 per doz., $10 per 100.

Less 5 per cent if cash accompanies the order

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. **Subscription price $1.00 per year. Foreign subscriptions $1.50 per year.** In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

When writing to advertisers kindly mention HORTICULTURE.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

Very Large Evergreen and Deciduous Trees
LARGE PRIVET

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Peas.

Since our last crop news was published, more definite information has come to hand affecting peas, beans and corn. The most reliable information we have justifies the statement that peas are going to be a pretty fair crop this year, and while there may be some shortages, they will not be serious enough to cause embarrassment. There will doubtless be some shortage in the smooth varieties, such as Alaskas and Extra Earlies, but the wrinkled sorts in most instances will probably be delivered nearly full on contracts, and most of the growers will have some surpluses of different varieties. While the crop has been a very good one, growers did not sell themselves as closely as they have in former years which, of course, enables them this year to nearly or quite fill their contracts as already stated.

Beans.

We reported beans as being a somewhat uncertain proposition in our last report on crops, and the situation has not improved since then. On the contrary, owing to early frosts many crops have been seriously damaged and it is now definitely understood that there will be a considerable shortage in seed beans. It is, of course, too early as yet to state the probable deliveries in figures, and doubtless this will not be possible for some weeks yet. Inquiry among growers develops the fact that none of the prominent ones are willing to name prices on beans at present. Most of them announce that the crop will be short, and that they are unlikely to have much, if any, surplus to offer, and that it will be many weeks yet before they will be able to make a definite statement.

Corn.

The severe frosts of a week ago over the greater part of New York State proved very disastrous to corn. The crop was very late, owing to slow growth as a result of the severe drouth of the past summer, and much of it had hardly reached the canning stage when the frost caught it. We are advised that the canners had only been operating from a week to ten days, while a number had not put up a single can, and will not on this year's crop. The loss to the canners of this State will amount to hundreds of thousands of dollars. Fortunately, the frost seems to have been confined largely to New York State and portions of New England. We are also advised that it did considerable damage in Michigan. But the West, so far as we can ascertain was not affected to any appreciable extent. As the carry-over of canned corn from last year was very large, prices are not likely to rule abnormally high excepting possibly on the very fancy grades; therefore, those who are fond of this article of diet need not fear a famine, although there will be no three cans for 25 cents as has often been the rule the past season.

As to seed, the probabilities are that there will be enough to meet requirements, although all indications point to considerable advance over last year's prices. Much, of course depends on the weather from now on, and we will endeavor to keep our readers informed of the progress and development of the crop and the curing of same.

Small Seeds.

In other lines of seeds that are commonly known as "small seeds," conditions are much the same as previously reported. There are not many shortages in the line of standards, most shortages occurring among the specialties and, of course, are not as severely felt as when standard lines are hard hit as in past seasons.

Notes.

J. C. Vaughan stopped in New York a few days on his return from Europe.

W. C. Rickards is once more on the staff of J. M. Thorburn & Co., at 53 Barclay street, New York.

Incidentally J. F. Noll & Co., report a most gratifying volume of business and with its present able head, this company is bound to forge rapidly to the front.

Stumpp & Walter Co., moved into their new location at 30 and 32 Barclay St., New York, this week. The store is very spacious and well located for local trade.

The new seed house of Newark, N. J., starts under very promising auspices, Mr. Wilson being a seedsman of ripe experience while his associates are energetic business-getters. We wish them prosperity.

Burnett Bros'. new establishment at 98 Chambers street, New York, is being put into finished shape as quickly as business demands permit of. They have the entire five stories with basement and sub-basement and the location is first class.

W. A. Fisk, of Barrett's Seed House, Providence, R. I., will on October 4th celebrate his 70th birthday. He does not look the part and we are inclined to think he has counted up too fast entirely.

Chicago—Reports from all quarters would show that general satisfaction is felt with the bulbs, the last shipments of which are now coming in. Quality is exceptionally good and fine displays attract much attention to the windows of the down-town seed stores and trade is generally pronounced good.

Onion sets are slowly but surely rising in value. Growers are more than pleased with the crop in all its colors, white, yellow and red, which is said to be so hard that shrinkage will be light. Beans are not yet harvested but owing to wet weather at this time a light crop is expected.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

CHRISTMAS OR WINTER FLOWERING SWEET PEAS

	oz.	¼ lb.	lb.
Michell's Snowdrift, pure white, black seeded	$0.25	$0.75	$2.00
Christmas Pink, pink and white	.15	.50	1.50
Christmas White	.15	.50	1.50
Christmas Meteor, scarlet	.15	.50	1.50
Mrs. Alex Wallace, lavender	.15	.50	1.75
Mrs. Chas. H. Totty, lavender	.15	.50	1.50
Mrs. Edie Wilde, carmine red	.15	.50	1.50
Mrs. F. J. Dolansky, daybreak pink	$0.15	$0.50	$1.50
Mrs. Geo. Lewis, pure white	.15	.50	1.50
Mrs. Wm. Sim, salmon pink	.15	.50	1.75
Mrs. W. W. Smalley, satin pink	.15	.50	1.50
Le Marquis, dark blue	.15	.50	1.50
Watchung, pure white	.15	.50	1.50

Also many other varieties.

Our latest Wholesale Catalogue of Bulbs, Seeds and Florists' Supplies Just Out. Send for a Copy if you did not receive one

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

MUSHROOM SPAWN.

New Shipments Just Received

English Finest Quality....$ 8.00 per 100 lbs.
American Pure Culture...$12.00 per 100 lbs.

WEEBER & DON

Seed Merchants, 114 Chambers St., New York

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin **MILFORD, CONN.**

NEW WINTERFLOWERING

SWEET PEA LIST

has been mailed. If you have not received one, drop me postal.

ANT. C. ZVOLANEK

Greenhouses: BOUND BROOK, NEW JERSEY

Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice

On and after this date our address will be

98 Chambers St., N. Y.

Between Broadway and Church St.

BURNETT BROS.

Seedsmen

CALL AND SEE OUR NEW OUTFIT

SEEDS

For Early Sowing

Price List for the Asking

The W. W. Barnard Co.

231-235 W. Madison St., CHICAGO

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM AND FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

FOTTLER FISKE RAWSON CO.

BOSTON

LILIES

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Specinl Florist List

PANSY SEED

Specially Blended for Florists Use.

TRADE PKTS. $1.00.

Wm. Elliott & Sons

42 Vesey St., New York

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

ONION SETS

226-230 W. KINZIE STREET, CHICAGO

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

PANSIES

THORBURN'S SUPERB MIXTURE has been known for years for its variety of color and size of flowers. Per oz.....$4.00

We have also extra fine strains of Masterpiece, Madam Perret and all leading varieties of Giant Trimardeau. Write for Prices.

FREESIA

	100	1000
REFRACTA ALBA:		
⅝ to ½ in. diameter.....	$0.75	$5.00
½ to ¾ in. "	1.00	8.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference.....	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15...	$3.75	$35.00
NARCISSUS, Paper White Grandiflora, 13-15.....	1.25	8.00
LILIUM CANDIDUM, 20.....	5.00	40.00

HAVE YOU OUR FLORISTS' CATALOG? ASK FOR IT WHEN ORDERING.

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T 15) NEW YORK, N. Y.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. Heins Sons, Halstenbek (Germany) Fruit Tree Stock, Forest Trees, Hedge Plants.

E. Neubert, Wandsbek (Germany) Lily of the Valley, Lilacs for Forcing.

A. Keilholz, Quedlinburg (Germany) High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders

IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

New York, N. Y.—James B. Doyle, 162 E. 86th street.

Springfield, Mass.—Nicholas, the Florist, Holland Block, Elm street.

Rochester, N. Y.—E. W. Edwards & Son.

Erie, Pa.—Miles R. Miller, 924 Peach street.

Chicago, Ill.—Abest Flower Store, 3345 West North Ave.

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow ..Oct. 2
Scotian, Montreal-London ..Oct. 5
Virginian, Montreal-Liverp'l..Oct. 7

American.

Philadelphia, N. Y.-S'hampton..Oct. 4
New York, N. Y.-S'hampton....Oct. 10

Atlantic Transport.

Minneapolis, N. Y.-London ..Oct. 4
Minnehaha, N. Y.-London ..Oct. 11

Cunard.

Franconia, Boston-Liverpool..Sept. 30
Mauretania, N. Y.-Liverpool ..Oct. 1
Pannonia, N. Y.-Mediterr'n....Oct. 2
Carmania, N. Y.-Liverpool....Oct. 4

French Line.

France, N. Y.-Havre ..Oct. 1
La Touraine, N. Y.-Havre ..Oct. 4

Hamburg-American.

K. A. Victoria, N. Y.-Hamburg..Oct. 2
Pretoria, N. Y.-Hamburg ..Oct. 4
Pres. Grant, N. Y.-Hamburg ..Oct. 8

Holland-America.

New Amst'd'm, N. Y.-Rott'd'm..Sept. 30
Noordam, N. Y.-Rotterdam....Oct. 7

Leyland.

Devonian, Boston-Liverpool ..Oct. 1

North German Lloyd.

Kronp. Wilhelm, N. Y.-Plym'th..Sept. 30
Bremen, N. Y.-Bremen ..Oct. 2
G. Washington, N. Y.-Bremen..Oct. 4
Prinzess Irene, N. Y.-Medit'n..Oct. 4
Kronp. Cecilie, N. Y.-Bremen..Oct. 7

Red Star.

Zeeland, N. Y.-Antwerp ..Oct. 5
Finland, N. Y.-Antwerp....Oct. 10

White Star.

Baltic, N. Y.-Liverpool....Oct. 2
Olympic, N. Y.-S'hampton....Oct. 4
Canada, Montreal-Liverpool...Oct. 4
Cymric, Boston-Liverpool....Oct. 7
Adriatic, N. Y.-Liverpool....Oct. 9
Majestic, N. Y.-S'hampton....Oct. 11
Megantic, Montreal-Liverpool..Oct. 11

CINCINNATI NOTES.

Buyers in town last week included Mr. and Mrs. Haugh, of Stuart & Haugh, Anderson, Ind., and Wm. Nolan, of the Herms Floral Co., Portsmouth, O.

Henry Gorkel has been very unfortunate with fires this year. For the second time his house has burned within the past twelve months. The building was not quite completed.

The list of traveling representatives included Ellis Woodworth, representing The Sefton Mfg. Co., Ed. Fancourt, representing The Pennock-Meehan Co., J. Buback, representing Schloss Bros. and Martin Reuhauf, representing H. Bayersdorfer & Co.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Execute orders in any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardesse.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

CARBONE
Member Florists' Telegraph Delivery
342 Boylston St., Boston
Vases, Garden Furniture, Art Goods and New Designs in Tuscany Baskets for Florists' Use, in Wholesale Department.

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 25 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Boston—Philip L. Carbone, 342 Boylston St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Chicago—A. Lange, 25 E. Madison St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
San Francisco, Cal.—Pelicano, Rossi & Co., 123 Kearney St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

ST. LOUIS NOTES.

George Waldbart returned last week after a summer's travels in Europe.

R. J. Windler and Mrs. Windler will spend a few weeks at Chicago, at the home of Adam Zender, Mrs. Windler's father.

The Florist Club trustees say they will enforce the new rule at the next meeting to open promptly at 2 o'clock. This was decided on at the last meeting to give the out-of-town members a chance to get home at an early hour.

Visitor: Walter Mott, representing Benj. Hammond, Beacon, N. Y.

NEWS NOTES.

Providence, R. I.—Joseph Kopelman has sold out his retail flower business on Washington street, and will give his entire attention to his wholesale establishment on Eddy street.

Portland, Me.—E. J. Harmon & Co., retail florists, Congress street, have sold out their business to Harriman & Newcomb, who will continue under the old name of E. J. Harmon & Co.

When writing to advertisers kindly mention HORTICULTURE.

IT'S YOURS
FOR THE ASKING
A Postal Request Brings to You Our
FALL SUPPLEMENT
TO OUR
"WILLING HELPER"
Full of Attractive Illustrations of ALL THAT'S NEWEST AND BEST in the Realm of Supplies.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

AMERICAN INSTITUTE EXHIBITION.

The eighty-second Fair of the above was held at the Engineering Building, West 39 street, New York City, Sept. 23rd to 25th. Admission was free and consequently it was well patronized. Pity it was, it seemed to us, that exhibitions like this are not held where the great masses can see them—even to make such a school event would tend to everlastingly impress—but we have in our mind's eye the hundreds of thousands about the City Hall, many thousands of whom have window gardens and back yards and who would find delight and encouragement in a better education on flowers. The future of horticulture depends not on the obscure few—but on the broad unknown, and the millions who admire are more important than the few who own. Demonstrations of the uses to which flowers, fruit and vegetables can be put would pay, not only in increased attendance, but in lasting value to those who do attend. To have, say, a couple of artists show how to arrange the different flowers in the home—give examples of artistic arranging that would educate even those in the trade. Who can tell the ultimate influence of practical demonstrations in the variety and care of plants suitable to window gardening? There are many worlds between the greenhouse or garden and the dining room or hallway, and those connected with shows should get away from the selfish gratification of their regiments of vases and bottles. The nicety of a mud-pie is charming to the kid. Is it right to remain kiddish all one's life?

But let's get back to our job of telling you what was at this Fair. While the schedule called for a variety of things it was primarily a dahlia show, and let us here state that never a better show of dahlias was seen in New York City. Ten thousand blooms might have been about the number shown in about four hundred varieties, and considering the weather we had last week, the quality of flowers tended to amaze even the practised eye. To the optic attracted by color these myriads of shades, tones and selfs created a splendid galaxy, for in nothing else in the kingdom of flora can such colors be seen.

Isn't it about time dahlias were named and classified with some sense? Do those back-fence classifications add to present day intelligence or attract buyers? On the other hand don't they libel the flowers and denote ignorance? Think it over, ye cataloguers.

George L. Stillman, Westerly, R. I., deserves special credit for his comprehensive and splendid exhibit of a thousand blooms in all types and classes, winning ten 1sts and as many 2nds and special prizes. David Herbert & Son, Atco, N. J., rivalled this with their splendid exhibits, showing all the classes the firm is famous for, winning 1st, 2nd or special in every class for commercial growers. Head's Bergenfield Nurseries won many prizes, their paeony-flowered type being very attractive. Harold Cottam of Wappinger Falls, N. Y., captured 1st and specials in classes for 50 and 25 var. and P. W. Popp, gardener to H. Darlington, Mamaroneck, N. Y., deservedly won 1st for his fifty magnificent varieties of glory star type in the class for private gardeners. Chas. S. Gall, Paterson, N. J., added to the list of prize winners with many well displayed lots. That old veteran, Jas. Kirby, gardener to Wm. J. Matheson, Huntington, L. I., got his full share of 1sts and 2nds. John Lewis Childs of Flowerfield, L. I., got his share of notice from the public by exhibiting a new white show dahlia he named Dee-lighted. Forbes & Keith, New Bedford, Mass.; Richard Vincent, Jr., & Sons Co., Whitemarsh, Md., and J. P. Sorenson, gardener to Wm. Shilleber, Essex Falls, N. J., were all creditably represented and duly rewarded.

Exhibits in gladioli were few, Mr. Popp winning first in both classes; John Lewis Childs, second. Herman H. Baer, New Hyde Park, L. I., exhibited a group of pink gladiolus, a seedling of May × Shakespeare in form and color resembling "Scribe," for which he was awarded a special. John Lewis Childs made miscellaneous exhibits of montbretias and hardy flowers to which specials were awarded.

Julius Roehrs Co. were the only exhibitors in groups of orchids and decorative plants and took all in that section. Many beautiful bits of orchids were in their groups. Lager & Hurrell came in late with three specimen orchids—three dainty queens which won specials.

In roses Chas. H. Totty got a special on a white seedling of My Maryland and first on 25 blooms of Mrs. Shawyer which were easily the best roses there. also first on yellow with "Sunburst." W. H. Maginnis, W. H. Waite and R Hughes were the other winners.

Herbaceus flowers from Wm. Duckham, early chrysanthemums from Messrs. Totty and Swenson, apples and pears from Mrs. W. P. Masten, Harold Cottam, Wm. Dowlen and Jas. Kirby; grapes from E. E. Corby, Dehn & Bently, and vegetables from Wm. Dowlen, Jas. Stevens, J. G. P. Kennedy, E Bertolf, Mrs. Masten, H. B. Fullerton and A. Macdonald—all these were worthy and suitably recognized, but after all it was a dahlia show and a good one. Much credit must be given to hard-working Secretary Eagleson, and Manager Billy Rickards. The judges were Peter Duff, Alex. McKenzie, Ed. Reagan and J. J. McNicols. None better.

J. IVERA DONLAN.



E. S. MILLER RETIRES FROM THE BULB BUSINESS.

E. S. Miller, from whose bulb and hardy perennial gardens at Wading River, N. Y., so many meritorious things have been exploited, announces that he has sold his entire stock of bulbs and hardy plants, the purchaser being John Lewis Childs of Flowerfield, N. Y. The stock includes about three hundred seedling gladioli which Mr. Miller has been selecting with critical care for the past eight years and which have not yet been disseminated. When they do appear something good may be looked for.

In the future Mr. Miller will devote his time to fruits and general seed growing. He will continue to live at the old homestead in Wading River and we wish him many years of happinesss and comfort in his semi-retirement.



The above advt. is one of a series of paid advts that Penn the Florist, of Boston, is publishing weekly, alternating in the four florists' papers, to become better acquainted with the florists of the country. These advts have been published daily in the different Boston papers. Any florist desiring to use same in his home town, may do so without further consent. These advts. have been the means of establishing our present great volume of business.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

ORCHID GROUP AT "HOLLAND HOUSE" SHOW, LONDON.



By F. Sander & Sons, Winning the "Sixty Guinea Challenge Cup" and the Royal Horticultural Society's Gold Medal for Finest Exhibit.

CHICAGO NOTES.

E. E. Peiser is home after a long absence.

Mr. and Mrs. J. C. Vaughan are expected home about October 1st.

F. F. Benthey, for several years with Kyle & Foerster, is now with Zech & Mann.

One of the down-town florists has a window in green and yellow, a pretty suggestion of early fall.

Harry Rowe will leave his present location on Monroe street, Oct. 1st, and move to the second floor, at the northeast corner of Washington street and Wabash avenue, where he will include both the wholesale and retail branches of the business.

The Abest flower store, 3345 W. North avenue, was opened Sept. 15. The proprietors are L. Hoekner of Peter Reinberg's and C. S. Stewart, formerly with W. W. Barnard Co. Both are well known to the trade and have the good will of all.

Wm. Graff will take charge of the retail store for Sam Pearse at the Clybourne Ave. place where Mr. Pearse has been for many years. The new place on Higgins' Road is now about complete and is a model plant of the latest methods of construction.

A smaller quantity of decorative stock is employed than usual in the large department store openings this week. Very little, even of prepared green was used and Asparagus plumosa in limited amount is the only natural green seen. An absence of grapes, berries, etc., is noticed and extreme simplicity rules.

A light frost, the first of the season, visited this vicinity early Monday, the 22nd, causing but slight damage. The following night, the record of the coldest weather for the time of the year was made, when the growers all about the city found their thermometers registering 28 degrees and excepting in sheltered places out door flowers were destroyed.

Visitors: R. Karlstrom, of W. A. Manda, So. Orange, N. J.; Henry Ilg Winnetka, Ill.; A. C. Reicher, Michigan City, Ind.; Roy Wilcox, Council Bluffs, Ia.; H. W. Voss, Council Bluffs, Ia.; F. X. Gorley, Nat. Kingsley, Mr. Seegar, Miss Armstrong and Henry Ostertag, all from St. Louis, Mo.; B. Shroeter, Detroit, Mich.; Luke Collins, Grand Rapids, Mich.

Gold Letters

1¼ inch	45c	per 100
1 "	40c	" "
¾ "	35c	" "

On all orders of 1000 initials or over we will include one compartment box free.

Mother of Pearl

LETTERS

The latest for ribbon work. We made a hit right from the start! If you have not received our samples as yet, write immediately and get on the mailing list of the

AMERICAN IMPORTING CO.
219 No. Dearborn Street, Chicago

Some of Our

ROSE NOVELTIES

CECILLE BRUNNER OR SWEETHEART

IRISH FIRE FLAME MRS. A. WARD

SUNBURST

Roses that you will need this coming season. We can furnish these varieties now and will have others to offer you later.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago

RUSCUS AND RUSCUS WREATHS

Write for Samples and Prices

POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI September 15			CHICAGO September 2			BUFFALO September 15			PITTSBURG September 15		
Am. Beauty, Fancy and Special	20.00	to	30.00	25.00	to	35.00	20.00	to	25.00	15.00	to	20.00
" " Extra	8.00	to	10.00	15.00	to	20.00	10.00	to	15.00	10.00	to	20.00
" " No. 1	6.00	to	8.00	8.00	to	10.00	6.00	to	8.00	6.00	to	8.00
" " Lower Grades	4.00	to	6.00	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00
Killarney, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	6.00	to	8.00
" Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	4.00	to	5.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	8.00	5.00	to	7.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	2.00	to	3.00	.....	to	4.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	7.00	6.00	to	8.00
" " " " Ordinary	1.00	to	3.00	3.00	to	4.00	3.00	to	4.00	.....	to	4.00
Carnations, Fancy Grade	.....	to	1.50	1.00	to	1.50	.....	to	2.00	.....	to	2.00
" Ordinary	.....	to	1.00	.50	to	1.00	1.00	to	1.50	.....	to	1.50
Cattleyas	.....	to	.....	..	to	50.00	...	to	.....	50.00	to	75.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	12.50	8.00	to	10.00	12.00	to	15.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Chrysanthemums	...	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Gladioli	3.00	to	3.00	2.00	to	4.00	1.00	to	3.00	1.00	to	4.00
Asters	.50	to	2.00	1.00	to	4.00	.50	to	2.00	1.00	to	3.00
Daises	.....	to	.50	.15	to	.25	.....	to	.....	.....	to	1.50
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.50	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	25.00	to	35.00	25.00	to	35.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	35.00	to	50.00	75.00	to	40.00	40.00	to	50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly mention HORTICULTURE.



NEW ROSES

Never in the history of the flower business have we had such magnificent roses so early in the season and never have we had so many new varieties. Our growers having planted largely of the new ones enables us to give more varied selection than ever before.

	Fancy	Extra	First	Second
Mrs. Charles Russell	$12.00	$10.00	$8.00	$6.00
Radiance	8.00	6.00	5.00	3.00
Jonkheer J. L. Mock	8.00	6.00	5.00	3.00
Sunburst, Ward & Hillingdon	8.00	6.00	5.00	3.00
Irish Fire Flame		10.00	8.00	
Sweetheart		4.00	3.00	
Richmond (unusually choice)	8.00	6.00	5.00	3.00
Mrs. Taft	8.00	6.00	5.00	3.00
Maryland and Pink and White Killarney	8.00	6.00	5.00	3.00

Beauties, $8.00 to $20.00 per 100.
CATTLEYAS: $6.00 per doz.; $40.00 per 100.
VALLEY: Special, $4.00 per 100; Extra, $3.00 per 100.
DAHLIAS: Direct shipments, very choice stock; $2.00 to $3.00 per 100; some choicer novelties at $4.00 per 100.

HEADQUARTERS FOR GREENS

WILD SMILAX, $6.00 per case. BRONZE GALAX, $2.00 per 1000.
GREEN GALAX, $1.00 per 1000; $7.50 per 10,000.
GREEN LEUCOTHOE, new crop, $1.00 per 100; $7.50 per 1000.
GREEN SHEET MOSS, $3.50 per bag.
ASPARAGUS STRINGS, 50c. each.
ASPARAGUS AND SPRENGERI, bunches, 50c. each.
ADIANTUM, $1.00 per 100. SMILAX, 20c. per string.
CUT HEMLOCK, $2.50 per bundle.
HARDY DAGGER FERNS, best quality, large fronds, $1.50 per 1000.
SPHAGNUM MOSS, burlapped, 10 bbl. bales, $3.75 each; 5 bale lots, $3.50 each; 10 bale lots, $3.25 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. Our new illustrated catalogue of Ribbons and Supplies will be ready this month. Let us have your name so we can mail you a copy.

BUSINESS HOURS FROM 7.30 A. M. TO 6.00 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA 1608-20 Ludlow St. | NEW YORK 117 West 28th St. | BALTIMORE Franklin & St. Paul Sts. | WASHINGTON 1216 H St., N. W.

P M QUALITY

Flower Market Reports

BOSTON Brighter skies and brighter prospects are the verdict for this week. The stock of flowers coming in is much shortened up and the quality is not any too good after the dark rainy period which has interposed since our last report. Asters are about finished, due to stress of weather and attention is now diverted to the carnation and rose in consequence. Good prices are realized for whatever few asters are offered and the value of carnations has taken a distinctly upward turn. Roses are not up to quality shown before the equinoxial disturbance, being off color and soft and they have made no advance thus far in market value. Cattleyas are beginning to appear in greater numbers and prices have eased up. Gladioli are still with us and selling satisfactorily. Dahlias fairly abundant but they are not called for to any extent.

BUFFALO Weather conditions have been one day summer and the next a drizzling rain or cold and cloudy and business is rather uneven. As for stock, the receipts have been heavy on asters, gladioli, dahlias and roses, the latter coming on a little too fast. About all the winter varieties are coming in including the tiny Cecille Brunner or Mignon. Beauties are good and enough of them. All grades are had and the shorter ones sell best. Lilies are a little between crops and carnations are coming on more plentiful each day.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON September 25	ST. LOUIS September 15	PHILA September 15
Roses			
Am. Beauty, Fancy and Special	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" " Extra	8.00 to 12.00	15.00 to 18.00	12.50 to 15.00
" " No. 1	5.00 to 6.00	10.00 to 12.00	8.00 to 10.00
" " Lower Grades	2.00 to 4.00	3.00 to 8.00	2.00 to 6.00
Killarney, Extra	4.00 to 6.00	5.00 to 8.00	4.00 to 8.00
" Ordinary	1.00 to 3.00	2.00 to 4.00	1.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 8.00	5.00 to 8.00	4.00 to 8.00
" " Ordinary	1.00 to 3.00	2.00 to 4.00	1.00 to 3.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 8.00	6.00 to 8.00	4.00 to 8.00
" " " " Ordinary	1.00 to 3.00	4.00 to 5.00	1.00 to 3.00
Carnations, Fancy Grade	2.00 to 3.00	1.00 to 2.00	..... to .....
" Ordinary	1.00 to 1.50	.50 to .75	1.00 to 1.50
Cattleyas	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	10.00 to 12.00	10.00 to 12.50
Lily of the Valley	2.00 to 3.00	3.00 to 2.00	1.00 to 4.00
Chrysanthmums	8.00 to 12.00	..... to	..... to .....
Gladioli	2.00 to 3.00	1.00 to 2.00	1.00 to 4.00
Asters	1.00 to 2.00	1.00 to 3.00	.50 to 3.00
Daises	..... to 1.00	..... to	..... to .....
Gardenias	8.00 to 12.00	..... to	..... to .....
Adiantum	1.00 to 1.25	1.00 to 1.25	.75 to 1.00
Smilax	10.00 to 15.00	15.00 to 18.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	25.00 to 35.00	15.00 to 35.00	35.00 to 50.00

CHICAGO The market is very shy on all flowers except asters, gladioli and the miscellaneous out-of-door stock, cut because of the coming frost. Asters are supposed to be limited to one more week and where the frost was severe the season for cutting is now over. All roses sell readily, the supply of good ones being insufficient to meet the demand, much to the regret of the wholesalers, who are seen hurrying from place to place to get the stock for their orders. The price on carnations has gone up with a bound—three dollars for any good stock, while the few fancy ones have brought as high as five dollars per hundred. A few cattleyas are in the market. Dendrobium formosum blooms bring $6 per doz. and oncidiums from $2 to $4 per 100. Chrysanthemums are cut in larger quantities each day—October Frost and Golden Glow the only varieties so far. Lilies are still too scarce for the demand, lily of the valley about equal to the call and gardenias out of the question for a few weeks more.

CINCINNATI The close of last week and the first days of this week gave us the first touch of real cool weather this year. On Monday night there was a light frost in some exposed places. Up to this time, however, no damage from same has been reported. There is a fair and active demand in the market. The supply, although it has shortened considerably, is still easily sufficient for requirements. Shipping trade is very good. As fast as the asters and gladioli have been going out just so fast has the demand swerved to roses and carnations. The quality of the roses is very good. American Beauties and pink roses are selling the best. Car-

(Continued on page 447)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

—WM. P. FORD—
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 20 1913	First Half of Week beginning Sept. 22 1913
Cattleyas	30.00 to 60.00	30.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	12.00 to 20.00	12.00 to 20.00
Asters	.15 to 1.00	.15 to 1.00
Daises	..... to .50	..... to .50
Snapdragon	1.00 to 2.00	..... to .....
Gardenias	6.00 to 12.00	6.00 to 12.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

—MONTREAL FLORAL EXCHANGE, LTD.—
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST....NEW YORK CITY
Special Attention to the Shipping Trade

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Prepared MAGNOLIA Leaves
Red, Bronze and Green, Finest in the Country
Try a Sample Order and be Convinced
$1.25 PER CARTON
N. F. McCARTHY & CO., 112 Arch Street, 31 Otis Street, BOSTON, MASS

Flower Market Reports

(Continued from page 445)

nations, too, are and have been improving until now most are of a very creditable quality. Lily receipts are rather limited in number but are exceptionally good. The cut of dahlias does not seem to be very large at this writing. All blooms of quality have been selling readily at fair prices.

NEW YORK

There are plenty of roses, at least, in all the wholesale stores but most of them belong to the underworld of rosedom, to judge by their appearance. Clearing skies and cooler weather may yet give them a little more style than they possess at present, not to mention the mildew which seems to have hit some of the experts while they were looking the other way. There are a good many asters still in sight but not many of them are any credit to their race. Gladioli are also on the downward grade and very near the jumping off place. Dahlias are making a brave effort to fill the vacancy but they haven't the quality to land them anywhere. As a rule they are a very bedraggled tribe this year. Cattleyas are coming in now in abundance, the labiata season being on. Lilies fairly plentiful but holding their own as to price. A few chrysanthemums everywhere, acceptable as to quality for so early a date. Carnations are gradually coming into the field of vision and the situation favors them for the moment. Isn't it about time for the distinguished gentleman with the first bunch of violets to walk in?

PHILADELPHIA

Business in the flower trade here has improved very much during the past week. Things were a little sluggish at the start but by the end good business was being done and there was very little surplus. Dahlias were a dominant feature and sell better than they have done so far this season. Roses plentiful and good with excellent demand. White roses—also Radiance and American Beauty leading. There are also some very choice pink Kallarney coming in. Among the new ones we have to chronicle the advent of Mrs. Chas. Russell and Johnkheer Mock. These meet with generous approval from the buyers and are a welcome addition. The old-time talk of lack of variety in the commercial rose market is now a thing of the past. Carnations are improving a little, but the bulk are still lacking in stem. Mrs. Ward seems to be the best so far. Orchids are in with a rush and the bottom has fallen out. Cattleyas dropped from seventy to forty cents in a twinkling. Lily of the valley, Easter lilies, white chrysanthemums and nearly all white flowers have sold themselves—in fact more could have been used. Buyers were begging for them at times.

ST. LOUIS

With cooler weather the market looked much better during the past week. Quality has toned up considerably. The continuous rain put a crimp in the retail trade and the opening of fall was not as good as was expected by the store men. Roses are of good quality and bring from $3 to $8 per 100 with values stiffening up. Carnations are not as yet up to the standard and only a few of the long stemmed ones are coming in. Other stock, such as asters, gladioli, tuberoses, lily of the valley and Easter lilies make up the daily market stock at present. Should the cool weather continue prices will go up on all grades of stock.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Sept. 20 1913	First Half of Week beginning Sept. 22 1913
American Beauty, Fancy and Special	12.00 to 25.00	15.00 to 25.00
" " Extra	8.00 to 10.00	8.00 to 12.00
" " No. 1	5.00 to 6.00	5.00 to 6.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 5.00	3.00 to 6.00
" Ordinary	1.00 to 2.00	1.00 to 2.00
Richmond, Hillingdon, Extra	3.00 to 5.00	3.00 to 6.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 10.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.00	1.50 to 2.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

IN BANKRUPTCY.

E. C. Haines & Co., Inc., florist and nursery, at Bedford Hills, N. Y., with branches at Mount Kisco and White Plains, N. Y., and Stamford, Conn., has filed a petition in bankruptcy, with liabilities $19,011 and nominal assets $24,225, consisting of real estate, $14,000; stock, $4,000; plant, $3,400; horses and wagons, $500; accounts, $2,250, and cash in bank, $25. The real estate consists of two and one-half acres of land, with six greenhouses, cottage, barn, etc. Emil V. Kratsch is president. The business has been established forty years. Judge Hough appointed Charles L. Brookheim receiver, bond $750. The company expects to make a settlement with creditors.

Personal

Harry A. Bunyard is taking a vacation at Blue Point, N. Y., pursuing the festive oyster and bluefish in their lair.

Miss Ethel Marie, eldest daughter of Mr. and Mrs. Charles W. Ward, of Queens, N. Y., was married to Gardner Ward Chase on Saturday, September 13th. After their honeymoon, the young couple will make their home in Cambridge, Mass.

New York visitors: Mr. and Mrs. H. Brown, Richmond, Va., as guests of John Donaldson.

Boston visitors: John Gibson, Newport, R. I.; Duncan Robertson, Chicago, Ill.; E. J. Harmon, Portland, Me.

Philadelphia Visitors: DeForrest Ludwig, Pittsburgh, Pa.; Mr. Mulandre and J. P. Klausner, New York City; Mr. and Mrs. Ernest Ashley, Allentown, Pa.; J. S. Simmons and family, Toronto, Ont.; Geo. Crossman, Rochester, N. Y.; Mr. and Mrs. Junker, Pittsburgh, Pa.; Geo. Smith, Cleveland Cut Flower Exchange; Miss Matilda Held, Baltimore, Md.; Joseph Koppelman, Providence, R. I.; Miss Anna Griffiths, Scranton, Pa.; Miss Mary Davis, Wilkesbarre, Pa.

Springfield, Ill.—Fire destroyed the packing house of the Spaulding Nursery & Orchard Company, Sixth and Hickory streets on September 9th.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 53

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

The W. W. Barnard Co., Chicago, Ill.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Field grown Carnation Plants Enchantress, medium size, $4.00 per 100. Cash.—M. J. SCHAAF, Dansville, N. Y.

Carnations, 150 Queen, 200 Perfection, 400 Winsor, 100 Penn, 100 Lawson, 150 Pink Enchantress. $6.00 per 100. CHAS. H. GREEN, Spencer, Mass.

Carnations For Sale. 200 Beacon; 350 White Enchantress; 1500 Harlowarden; fine field-grown plants; $5.00 per 100. Send cash with order. R. W. UNGER, Florist, Oxford, Mich.

FIELD GROWN CARNATION PLANTS. 4,000 Enchantress, 3,000 Queens, 1,500 Sangmel, $40.00 per 1000. This is a bargain for some one. 15 and 25 shoots on each plant. Free from all diseases. Cash with order, please. F. B. ABRAMS, Blue Point, L. I., N. Y.

CLOSING OUT.
FOR SALE: 500 field grown carnations, Enchantress and Beacon, 5 cents each; 500 White Wonder, 3 cents; 300 Cyclamen, 4 and 5-inch, Dreer's seeds, 25 cents; 300 Obconicas, 4-inch, 8 cents; 100 Hydrangea, 6-inch, 25 cents; 50 Dracena Indivisa, 5 and 6-inch, 15 cents; 300 Primula Novelty, 3-inch, 8 cents. All first-class plants. EDMUND REARDON, 38 Henry St., Cambridge A, Mass. Telephone 1034.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Brooklyn (best and freest deep pink)—Strong bush, healthy field plants, $5.00 per 100; $45.00 per 1000. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum fowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash. J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 427

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co., 219 Dearborn St., Chicago, Ill.
Gold Letters- Mother of Pearl Letters.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FRUIT TREES

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For Field, Garden or Orchard House.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GALVANIZED BUCKETS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

We have in the field large stocks of the gladioli mentioned below, on which we will be glad to quote prices of sizes from ⅝ in. to 2 in., fall or spring delivery: B. Hulot, Europa, Faust, Fred Wigman, Halley, Glory, Lily Lehmann, Liebesfeuer, Niagara, Princepine, Princeps, Panama, Peace, Sulphur King, Willy Wigman, Alice Carey, America, Augusta, F. King, Mme. Monmeret, Rosella, Scarsdale, Taconic, Golden Queen, Rochester, La Luna, etc. First come, first served. Last spring we were compelled to refuse late orders. Cut flowers, $3.00 per 100 f. o. b.
RALPH E. HUNTINGTON, Painesville, O.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

William H. Lutton, Jersey City, N. J.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

E. S. Miller, Wading River, N. Y.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.
Hammond's Grape Dust.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roebrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

Mrs. Jenkins, the best white Phlox, $5.00 per 100. German Iris, mixed, $2.00 per 100. Will exchange these for Araucarias, Primulas, Rubbers, Whitmani Ferns and Cyclamen. AMON HEIGHTS NURSERIES, Camden, N. J.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS

Anton Schultheis, 316 19th St., College Point, L. I., N. Y.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula — Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY, West Grove, Penna.

RUBBER PLANTS

F. Oechslin, 4911 Quincy St., Chicago, Ill.
For page see List of Advertisers.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Giant Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
Mignonette Seed.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

For List of Advertisers See Page 427

SEEDS—Continued

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
Pansy Seed.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

W. W. Barnard Co., Chicago, Ill.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

PHOENIX ROEBELENII.
We expect from our collector a fresh harvest. Price on application.
SANDER, BRUGES, BELGIUM, and 258 Broadway, New York, N. Y.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co., Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets from field Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

AUCTION SALE OF LARGE PALMS AND GREENHOUSE STOCK.
Maeniff Horticultural Co., 56 Vesey St., New York.
For page see List of Advertisers.

BAY TREES.
"Tel-Wood," care of Horticulture.
For page see List of Advertisers.

CALIFORNIA PRIVET.
Lancaster County Nurseries, R. F. D. No. 7, Lancaster, Pa.
For page see List of Advertisers.

COLD STORAGE LILY BULBS.
A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

FALL SUPPLEMENT.
M. Rice Co., 1220 Race St., Philadelphia, Pa.
For page see List of Advertisers.

FRUIT TREES AND ROSES FOR THE GARDEN.
Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.
For page see List of Advertisers.

HARDY PERENNIAL PLANTS.
Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

MUSHROOM SPAWN.
Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

NEW ROSES.
S. S. Pennock-Meehan Co., 1608-20 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

ORCHIDS.
Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

WANTED—400 AMERICAN ASH TREES.
Olmsted Bros., Brookline, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

QUARANTINE UPON POTATOES.

Washington, September 22.—Notwithstanding the fact that potatoes have been placed on the free list in the new tariff bill, the recent action of the Federal Horticultural Board in continuing indefinitely the quarantine against potatoes from the British Isles, Germany, Austria-Hungary, Newfoundland, and St. Pierre and Miquelon, the principal sources of outside supply, makes it improbable that there will be any reduction in the price of that staple article of food. The object of the quarantine, which was first imposed just a year ago, is to prevent the introduction into the United States of a dangerous potato disease, now unknown in this country. This disease is known as the potato wart, the potato canker, or black scab, and is prevalent in the above-mentioned countries.

This notice is of considerable import to potato growers, as it not only insures their crops from the ravages of this disease, but also may affect the price of potatoes. Our potato crops are accustomed to vary greatly, running from a great shortage one year to a great surplus the next. The quarantine shuts off practically all supply from abroad—though it may be noted that it does not affect potatoes from Bermuda or Canada—and means that we shall have to produce practically all the potatoes we consume for an indefinite length of time. The year before this quarantine order was issued (in 1911) there was an importation of 13,000,000 bushels of foreign potatoes into the United States.

A communication from the London Bureau of Agriculture, transmitted through the British embassy and our State Department, has recently asked that this quarantine against potatoes be raised or modified. The Federal Horticultural Board, however, has ruled that the risk of introducing new diseases into the United States is too great to justify a change. A considerable area in England and Scotland is more or less infected with wart disease, and these infected districts adjoin Liverpool and other ports from which shipments would be made to the United States. The quarantine against Ireland is particularly important, because of the existence there of certain potato diseases known as powdery scab and pink tuber rot. These diseases also exist in the other countries placed under quarantine.

Regarding the importation of European potatoes for seed, the Department finds that practically all European varieties are unfit for culture in the United States, as compared with the best of our own. The Board holds that it is detrimental for American agriculture to encourage the sale and use of foreign seed potatoes (as was done by dealers prior to the quarantine), because of their relative lack of vigor and productivity in the local fields.

The Board also states that the present condition of the 1913 potato crop in the United States is, on the whole, most promising. It does not seem apparent at this date that market conditions will require an importation of potatoes into the United States this winter.—*New York Evening Telegram.*

DAHLIA SHOW AT MICHELL'S.

Over two hundred varieties of dahlias were exhibited on the occasion of the fifth annual show of the H. F. Michell Co., held at their seed store in Philadelphia, the 23rd, 24th, 25th and 26th inst. Most of these were grown at the Michell nursery at Andalusia, Pa., and proved a great attraction to the public—besides being of educative and commercial value. In addition to this the store's customers were invited to compete for prizes in dahlias and other flowers, also vegetables, and some very good displays resulted from this. Among the prominent prize winners were William Robertson, John Little, Robert Morrow, George Zinn, William H. Hart, David Aiken, N. McGranaghan, Stephen Aiger, J. J. Burleigh and Wm. Norris. A fine collection of hardy outdoor flowers came from W. S. Mason, Farmington, Conn., and was awarded a special prize. The judges were Joseph Hurley, Haverford, Pa.; Peter H. Lane, M. D., Chestnut Hill, and George C. Watson, Philadelphia.

The show was free to the public. All of the employees worked hard to make it a success, but special mention is due to Messrs. Freud, Fuld and Bradley.

INCORPORATED.

Christiana Hundred, Del.—J. Elmer Betly Co.; flowers and nursery; capital stock $25,000.

Wilmington, Del.—The Buffin Pure Seed Company; capital stock, $1,000,000; to plant, grow, sell and deal in and with seeds of all kinds.

Velasco, Brazoria County, Tex.—Robb & Lanning; purpose, horticulture and agriculture; capital stock, $25,000. Incorporators: Norman K. Robb, E. E. White, J. I. Lanning.

PATENTS GRANTED.

1,073,114. Plant Supporter. Simon Gudgeon, New Bedford, Mass.

1,073,188. Weeding Implement. Fred E. Van Houten, Denver, Colo.

FIREPLACE DAYS.

Fireplace days, and O, how sweet
Around the flaming log to meet
The sunshine of a hundred years
To burn away our sighs and fears,
With leaping spark and golden tongue
Of flame to fill the room with young.
Old fireplace days come back, come back,
With sweetheart eyes to look from
dream
Into the old log burning there,
Bright with the ruddy fireplate gleam!

Fireplace days, and here we are
Beneath the golden Autumn star,
The fiddle tuned, the cider drawn,
The old floor waxed, the sand spread on
And light hearts waking to the blaze
Of backlogs in the fireplace days.
Old fireplace days, so full and rich
With memories loved and old,
Of sweethearts in the lanes of life
Worth all their weight in gold!

Fireplace days, and ain't it fine
To watch the old brass andiron shine,
And click the tongs and see the coals
Flip off as Mister Backlog rolls
Down from his perch, half burned in two,
To spread his broad smile wide for you.
Old fireplace days, and goodby chill
When here the warm glow of the fire
Burns in the hearts that love it still,
The homelight of love's old desire!

—*Baltimore Sun.*

Why HORTICULTURE has stood the test as a profitable Advertising medium for the trade.

Because It is read by the men of standing and influence in the Horticultural field, every one of whom is a prospective buyer.

Why HORTICULTURE is so widely read.

Because Its contents are distinctly representative of American Horticulture and are thus indispensable to the Florist, Nurseryman, Seedsman and Gardener.

An Admirer of HORTICULTURE in the Central West writes; "It has won on its merits. It is our most prized weekly visitor."

And Now You See How HORTICULTURE has managed to elbow its way in between its older rivals and why the best trade advertisers find it an indispensable auxiliary.

It's No Secret That the men who read HORTICULTURE are the sort of men that advertisers like to talk to and if you have anything to advertise you can't afford to get along without them

NEWS NOTES.

West Grove, Pa.—Burgess John B. Tanguy has purchased of A. Spark Watkins the Guernsey avenue greenhouses, for some time owned and operated by the latter, possession given at once. The property includes a chain of greenhouses with four acres attached, chiefly devoted to growing and shipping chrysanthemums and carnations. Price $2,700.

New York—Quite a number of floral people had a narrow escape from injury in the wreck of the Whitestone, College Point trains, last week, in which three persons were killed and many hurt. Among those who helped to extricate the injured were P. J. Smith, James Coyle and Frank Goldsmith. Frank Zuber was among those who were hurt but fortunately his injuries were not very serious.

Walter Mott's Notes by the Way

St. Louis, Mo.

Geo. Waldbart has returned from a European trip and is giving to the press his impressions of the great exhibition in Ghent and experiences elsewhere, which will undoubtedly help the business. He is more than ever in favor of home-grown stock.

J. J. Beneke talks of retiring from business in the, we hope, distant future, for the genial secretary of the Florists' Club is ever ready to impart any news of importance and his store is the Mecca of every traveling man who calls on the craft here.

The Schisler-Corneli Seed Co. are doing an immense business in grasses, which are treated scientifically and thoroughly tested in a testing house built for that purpose. They also experiment with fertilizers and insecticides, thus being able to advise their patrons intelligently.

The craft are busy with store openings in which artificial flowers mingle with natural plants. This is unavoidable, for apart from a few early chrysthemums, Advance and Golden Glow, seen farther south, the supply of blooming stock is at present very limited. The sharp change in the weather will undoubtedly be beneficial all around.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



"HAMMOND'S GRAPE DUST"

Used effectively to kill Mildews on Roses and other Plants . . .

Sold by the Seed Dealers.
For pamphlet on Bugs and Blights address

HAMMOND'S PAINT & SLUG SHOT WORKS

BEACON, N. Y. (Fishkill-on-Hudson, N. Y.)



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP" BRAND

Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.

1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Jobbers. Write for prices

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi. Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.

Manufacturers of Agricultural Chemicals

M. C. EBEL, General Manager.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

Obituary

A. D. Perry.

Aziel D. Perry, a well-known horticulturist in Central New York, died Sept. 17, at Syracuse, at the age of seventy-four.

Louis Stieffel.

Louis Stieffel, aged 71 years, and for the last thirty years a well-known florist at 1932 Third avenue, New York, died September 13th. He is survived by his widow.

Joseph Emory Arnold.

Joseph Emory Arnold, florist, died September 5th, at his home in Tyrone, Pa., aged 55 years. The business will be continued by his three sons under the name of Arnold Bros.

John Spencer Williams.

John S. Williams, of Providence, R. I., died on Thursday, September 18, aged 70 years. Mr. Williams was an amateur patron of horticulture, active and useful in the affairs and work of the Rhode Island Horticultural Society at whose shows he was a frequent exhibitor of garden flowers, and with whose members he was very popular personally.

George McWilliam.

George McWilliam, head gardener at George Marston Whitin's estate, and known as an originator and grower of rare plants, died at his home in Whitinsville, Mass., Saturday morning, September 13, aged 67 years and two months. His death was caused by bladder trouble. About two years ago Mr. McWilliam sustained a fall and since that time had been in failing health. Five weeks previous to his death he was operated on at the New England Baptist Hospital, Boston, and a week before he died was brought to his home.

Mr. McWilliam was born at Culroach Farm, Inch, Wigtonshire, Scotland, and came to the United States in 1872. He was employed on the R. M. Pratt estate at Mt. Auburn, Mass., under the late David Allan, until 1884, when he went to take charge of the gardens of Josiah Lasell, and has been with the Lasell-Whitin family ever since.

Mr. McWilliam was especially successful as a hybridizer and grower of calanthes, dipladenias, grapes and other hothouse specialties, some of which have been illustrated in HORTICULTURE from time to time, he being also a frequent contributor to our reading columns. A very large number of gold and silver medals and certificates adorned his library and were to him a source of great pride. He was a member of the Massachusetts and Worcester Horticultural Societies and acted as judge at many of the flower and fruit shows of these and other societies, including the International Flower Show at New York last spring.

George McWilliam was a man deeply in love with his work and in knowledge of the science of plant growing stood in the first rank. He was very retiring in manner and unassuming, yet sturdy in his convictions. His sterling honesty, sympathetic nature and kindly ways placed him high in the esteem of his fellow gardeners and florists and he will be sadly missed in the town where he lived so long and among his horticultural associates. The funeral was held on September 16, with Masonic ceremonies.

He is survived by his wife, who was Miss Isabelle McCrea; a brother, Alexander, in Nova Scotia, and two sisters in Scotland.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED
Decorator and Designer

Good opening for a first class, live, all-round man. State experience and references. PENN THE FLORIST, 43 Bromfield St., Boston, Mass.

FOR SALE

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—One large size Morehead steam trap, in use less than 12 months; good as new; cost $225, will sell for $100. F. FALLON, Roanoke, Va.

GREENHOUSES BUILDING OR CONTEMPLATED.

Hyannis, Mass.—C. W. Smith, one house.

Corry, Pa.—W. D. Rowe, King house 32 x 66.

Manchester, N. H.—G. I. Davis, Somerville street.

Warwick, Pa.—W. D. Siverling, vegetable house, 30 x 95.

Lansdale, Pa.—John Holt, Pennsylvania avenue, one house.

New Bedford, Mass.—A. B. Hathaway, Court street, house 20 x 85.

Waco, Tex.—G. Watson, range of houses; Wolfe Floral Co., additions.

Lord & Burnham Company have recently received the following contracts for greenhouses: Maryland Agricultural College, College Park, Md., ten houses; Wagner Park, Chattanooga, Tenn., palm house and three additional houses; Atlanta Floral Co., Atlanta, Ga., house 35 x 300; H. F. Michell Company, Andalusia, Pa., house 30 x 100.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in.	@	$4.50
1500	2	"	"	4.88	456	4½	"	"	5.24
1500	2¼	"	"	5.25	320	5	"	"	4.51
1500	2½	"	"	6.00	210	5½	"	"	3.78
1000	3	"	"	5.00	144	6	"	"	3.16
800	3½	"	"	5.80	120	7	"	"	4.20
					60	8	"	"	3.09

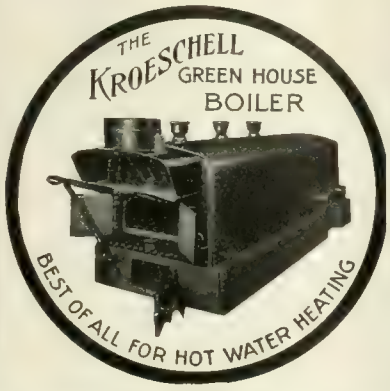
HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

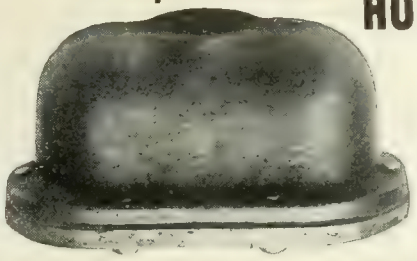
Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. Price $2.00 each, charges paid.

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y.
Makers of King Iron Frame Greenhouses.

CYPRESS
SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

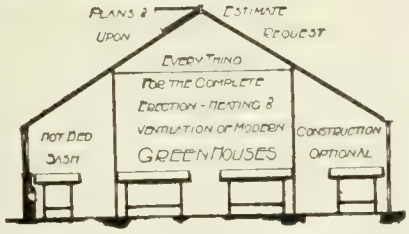
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.

Dreer's Peerless Glazing Points
For Greenhouses

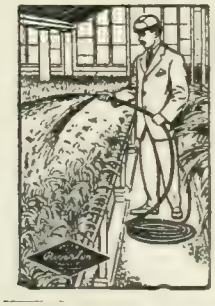
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



DREER'S
Florist Specialties, New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FflorIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

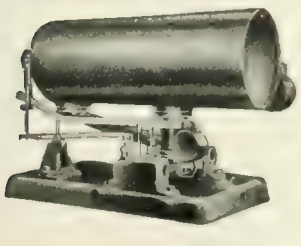
PATENTS
Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N.J.**

When writing to advertisers kindly mention HORTICULTURE.



"LEAVES NOTHING TO BE DESIRED"

So Speaks Chas. Umbach, former Gardener for Mr. S. J. Hyde, Greenwich, Conn.

THIS is a particularly attractive and practical little lean-to proposition.

The half timbered cottage in combination with field stone and our curved eave greenhouse is a source of delight to the owner and the pride of Mr. Umbach. Here's what he says of it.

"I'm glad to say that the curved eave house erected by Lord & Burnham proved fully that it was the right house to build both for pleasure and service. It gave excellent satisfaction. Your method of construction leaves nothing to be desired."

Chas. Umbach



Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. OCTOBER 4, 1913 No. 14



PLANT LABORATORY AT THE COLLEGE OF PHARMACY, UNIVERSITY OF MINNESOTA, ST. PAUL, MINN.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

MIGNONETTE

Farquhar's Universal

Sow Now For Fall Crop



One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
½ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.

Boston, Mass.

ORCHIDS

Holiday Flowering Stock

2000 PLANTS IN SHEATH

CASE LOT PRICES

One year established. Double Value to purchaser. QUICK RETURNS.

Will you have all the flowers you want in December? Special list ready. Cattleyas, Dendrobiums, Oncidiums, Laelias etc.

FREEMAN ORCHID COMPANY

G. L. FREEMAN, Mgr.

FALL RIVER, MASS.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST

WASHINGTON, NEW JERSEY

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED.

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciosissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinneri, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

Christmas Peppers

New Cluster Pepper, Celestial Peppers. Strong plants with fruit, from 4½ in. pots, $1.50 per dozen, $12.00 per 100.

Table Ferns, fine plants from 2¼-inch pots, best assortment, $3.00 per 100; $25.00 per 1000.

Primroses, Obconica, 2½-in. pots, the very best strains, strong plants, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates. Cash with order.

Frank Oechslin, 4911 Quincy St. CHICAGO

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case).....	$1.25	$8.50
14 ctm. bulbs (1000 to case).....	1.50	10.00

A. Henderson & Co.

369 RIVER ST., CHICAGO.

BAY TREES

For sale cheap, sixteen large Bay Trees, height 7½ to 9 ft., diameter 4½ to 5 ft. Can be seen at Beverly Farms, Mass., and can be delivered at once. Address "BAY WOOD," care Horticulture.

ARAUCARIA EXCELSA

5 in. 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA.

Mention HORTICULTURE when writing.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.

Tel. 2890 Bedford BROOKLYN, N. Y.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent. off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.

LOCK BOX 5

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.

Send for Price List.

Joseph Heacock

Wyncote, Pa.

GERANIUMS

We have 300,000 in 3-inch pots ready for immediate shipment, at $3.00 per 100, $25.00 per 1000, in the best collection of Standard Varieties, Double and Single, in the country.

Will have 200,000 in 2-inch pots ready October 1st, at $2.00 per 100, $18.50 per 1000, and an immense stock to follow.

LET US BOOK YOUR ORDER FOR FUTURE SHIPMENT

We are booking orders for Dahlias and Cannas, for the coming Fall and Winter delivery. *Send for list if interested.*

R. VINCENT, JR. & SONS CO. . . White Marsh, Maryland

CHAS. SCHWAKE & CO., INC.

Horticultural Importers & Exporters

90-92 West Broadway NEW YORK

Sole Agents for United States and Canada of

AUGUST HOHMANN'S VALLEY EXPORT

Established 1859 HAMBURG, GERMANY

In Writing Advertisers Kindly Mention HORTICULTURE.

LIST OF ADVERTISERS

Page

Advance Co....487
Albany Cut Flower Ex....478
Allen, J. K....478
Am. Importing Co. 475
Anderson, S. A..473
Aphine Mfg. Co.485
Aschmann, G....478
Atlanta Florist Co. 476
Ayres Co., S. Bryson 471
Badgley, Reidel & Meyer 478
Balsley, Harry..484
Barrows & Son..460
Bayersdorfer, H. & Co....475
Bay State Nurseries 468
Bloomingdale's, 472
Bobbink & Atkins 468
Boddington, A. T. 471
Bolgiano & Son, J. 471
Boston Florist Letter Co....476
Braslan Seed Growers 471
Breck, J. & Son.471
Breck-Robinson Nurseries . 468
Breitmeyer's, J. Sons 472
Boddy, John....467
Bryan, Alonzo J.458
Burnett Bros....471
Burpee, W. A. & Co. 471
California Florist 473
Cooke, Geo. H..474

Page

California Seed Growers' Asso 471
Chicago Carnation Co....476
Childs, John Lewis 460
Clarke's, D. Sons 472
Clark, Everett B. Seed Co....471
Cleveland Florists' Club.... 467
Conine, F. E. Nursery Co....469
Cowee, W. J....478
Craig, Robt. Co.458
Dards 472
Davenport, A. M.468
Dawson, H. S..460
Detroit Flower Pot Co.... 484
Dorner & Sons Co. 460
Dreer, H. A. 469-484-486
Dunlop, John H.473
Dysart, R. J....479
Eastern Nurseries 460
Edgar, W. W. Co.468
Edwards Folding Box Co.... 476
Elliott's, W. Sons.471
Eppstein, Julius.473
Ernest, W. H...484
Esler, J. G. 487
Eyres 472
Fairfield Landscape & Nurseries Co. 469
Farquhar, R. & J. & Co....458
Felix & Duckhuis 470
Ford, W. P. ..478

Page

Forrest, Frank H. 473
Fottler, Fiske, Rawson Co....471
Froment, H. E..478
Framingham Nurseries 468
Franklin Davis Nursery Co...469
Freeman Orchid Co. 458
Galvin, Thos. F.473
Gasser, J. M. Co.473
Goodsell, P. H..469
Grey, T. J. Co..470
Gude Bros. Co..472
Hail Association 487
Hall & Robinson.473
Hart, Geo. B....479
Heacock, Jos....458
Heinecken, Otto.471
Henderson, A...458
Hess & Swoboda.472
Hews, A. H. & Co. 484
Hill, E. G. Co..479
Hitchings & Co 487
Holland Nurseries 468
Hilfinger Bros...484
Holm & Olson..472
Hudson Carbon Co. 487
Industry Moss & Peat Co....458
Interstate Tobacco Co....485
Johnson, J. Oliver 471
Johnston Bros..473
Jones, Robert Ross 486
Kasting, W. F. Co. 479
Kervan Co....478

Page

Keller, J. B. Sons 472
King Construction Co....486
Knight & Struck Co. 470
Kramer, F. H...473
Kroeschell Bros.487
Kuebler, W. H..478
Lancaster Co. Nurseries 468
Lager & Hurrell.458
Lemon Oil Co..485
Leonard Seed Co.471
Leuthy, A. & Co.460
Loechner & Co..458
MacMulkin, E...473
May & Co., L. L.473
McConnell, Alex.472
McCarthy, N. F. Co. 476
McCray Refrigerator Co....473
McCullum Co...479
McHutchison & Co. 460
McKenna & Sons, P. .... .473
McKenzie, John.458
McManus, Jas...478
Metropolitan Material Co....487
Michell's Seed House 470
Michigan Cut Flower Ex....476
Millang, Chas...478
Montreal Floral Exchange 478
Moore, Hentz & Nash 478
Murray, Samuel.472
National Nurseryman 469
Nicotine Mfg. Co.485

Page

Niessen, Leo Co.476
N. Y. Stable Manure Co....485
Oechslin, Frank.458
Ohio Horticultural Co....467
Olmsted Bros...469
Ouwerkerk, P...468
Park Floral Co..472
Palmer, W. J. & Son 472
Parshelsky Bros.487
Penn the Florist.473
Pennock-Meehan Co. 477
Pierce Co., F. O.486
Pierson, A. N...460
Pierson, F. R. Co.460
Pierson U-Bar Co 488
Plant Food Co., 20th Century..485
Poehlmann Bros. Co. 476
Pollworth, C. C.472
Pulverized Manure Co....485
Quaker City Machine Co.,....486
Reed & Keller..478
Reinberg, Peter.476
Rice M. Co.... 473
Robinson Co., H. M. 478
Roehrs, J. Co...458
Roland, Thomas.460
Rolker, A. & Sons 460
Rosery, The 472
Sander & Son...458
Scott, John.... 458
Schling, Max....473
Schmidt Chas. & Co....459
Sheridan, W. F.478

Page

Sharp, Partridge & Co.... 487
Siebrecht, Geo. C.478
Siggers & Siggers 487
Sim, Wm....468
Skidelsky, S. S. & Co.... 471
Smith, P. J....478
Smith & Co., E. D. 469
Smith, W. & T. Co.469
Smyth, Wm. J..472
Sprague, J. H..458
Stearns, A. T. Lumber Co....487
Syracuse Pottery Co. 484
Tel-Wood 458
Totty, Chas. H..460
Thorburn, J. M. & Co....471
Traendly & Schenck 478
Valentine, J. A..472
Van Assche, F...486
Vincent, R., Jr., & Sons Co....459
Wants, For Sale.484
Ward, R. M. & Co. 460
Weber, F. C....473
Weeber & Don..471
Welch Bros 476
Whittier & Co., W. B....468
Wilson, Robt. G.472
Wood Bros. 460
Woodrow & Marketos 478
Young, John....478
Young & Nugent.472
Zangen, O. V...470
Zinn, J. A. 473
Zvolanek, Ant. C.471

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 480, 481, 482, 483

USE

HORSESHOE BRAND

GIGANTEUM

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,
CROMWELL CONN.
Bedding Plants and Roses

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

CHILDS' GLADIOLI

are noted the world over for
SUPERIOR MERIT

John Lewis Childs
FLOWERFIELD, L. I., N. Y.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale, Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Irises

There is no better time for planting than within the next four weeks. Work the soil over one foot, or, better still, 15 inches deep; pulverize it thoroughly, add a liberal amount of well-rotted manure, it matters little whether from cows or horses. If the soil is a stiff clay, as is the case with us, a good dose of sand is a splendid thing to incorporate into it. Fall-planted irises produce better flowers the first season than if transplanted in spring. They can be planted from 12 to 18 inches apart each way. A collection of German, English and Japanese iris will give a long succession of flowers.

Lilium Formosum

The lily grower, the man who grows thousands of them for Easter, who figures on the number of buds the plant will produce to judge whether a certain sort is more profitable to grow than another will find these lilies very useful, for they produce freely flowers of a fine type, with excellent texture. They can be potted singly into 6-inch pots. Give them a good watering after they are planted, but afterwards let them dry out before giving any more water, as the bulbs will rot if given too much. The best place to stand the pots is in a frame on some coal ashes, where they can remain until cool weather arrives. The earlier ones should be picked out and given a place as near the glass as accommodation will permit in a house of about 60 degrees at night and they will be useful during January and February when flowers are not so plenty. So long as the bulbs are started early and you have a pot full of roots, and good growth by February, the rest is easy.

Otaheite Orange

These desirable Christmas subjects should now be given a place on the sunniest bench with temperature from 52 to 58 at night. Place them far enough apart to admit the sunlight and turn them around frequently so that every side will get the benefit of some sun. Plants that are in healthy condition will take a good deal of moisture out of the soil so they should be examined each day to see which need to be watered, as some will require a more liberal supply than others. Attend well to day temperature, keeping it as near 70 to 72 as possible during sunny days. Give syringings once a day now and do it good as it will be a great help in keeping down scale and mealy bug. By all means strive to keep free of these pests if you want highly finished plants. When pots are well filled with roots give liquid manure once or twice a week.

Orchids

Now when we are liable to have spells of dark and rainy weather we shall have to be very careful about watering orchids. A good rule to follow in whatever watering you do is to let it be done fairly early in the morning, which will give them a chance to dry out some before the night. Shading can be reduced now as they will be better for all the light they can get. All such orchids as cattleyas, laelias, cœlogynes, odontoglossums, dendrobiums, miltonias, etc., can stand full sun by the middle of October. From this out overhead syringing should be gradually discontinued. Where syringing is carried on, let it be done in the mornings of bright days and only in the form of a fine misty spray. Give ventilation whenever possible as they all enjoy plenty of fresh air, outside those of the East Indian and tropical kinds. Make it a point to change the air at least once a day.

Peonies

The peonies are perfectly hardy and so robust that they grow well in any ordinary garden soil. However, they furnish the best flowers when planted in good, deep-trenched ground, and in situations where the soil retains a moderate degree of dampness. If the soil be poor, it should be copiously mixed with rich old manure. Cow manure is the best for all light soils. Manure must not come into direct contact with roots. The best time for planting peonies is September and October as soon as the temperature is cool enough for the plants to be sent without damage. Plant at least four feet apart each way and not too near voracious shrubs, the roots of which exhaust the soil. The plants should be inserted with the crowns or dormant buds about three inches below the surface and should then be well watered if it is at all dry.

Stock Plants of Chrysanthemums

As the different varieties are cut and the stock roots lifted and boxed up do not place them under the bench but give them a frame where they can have all the sun possible. Later on they can be given a bench in a light but cool house. When treated this way they will produce from 30 to 35 cuttings from each root.

Mr. Farrell's next notes will be on the following: Chrysanthemums; Campanulas; Lilies for Christmas; Planting Phlox; Perennial Borders; Preparing for Cold Weather.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Late Vinery

Watch the berries closely here to determine when they are ripe so that the temperature and general care of the house can be adjusted to favor their keeping in good condition a maximum length of time. It will be difficult to determine an approximate date for ripening in the different sections of the country, as so much will depend on the latitude and the heat of the summer months. This house is usually kept back as long as possible in spring and grown as cool as is practical throughout, which will make our friends in the north a month or more behind those further south. Keep the house going nicely until finished up, when a cooler and drier atmosphere will be more congenial to their welfare. Do not make the mistake so often made of keeping the border dry immediately the berries are ripe. It is a mistaken idea as a little thought will reveal. If the roots are dried out they cannot furnish the necessary amount of sap to keep the berries plump. This can be misconstrued and anyone is liable to think a real wet border is the ideal. No, that is not the point; when a vine border is dry give it water even though ripe fruit is hanging. Some varieties are given to split a few berries about the time they are ripening. Look out for these and remove them before they damage any of the perfect ones.

Prune Pot-Trees

As a preliminary to the general overhauling these trees are to have, the necessary pruning can be done before they are removed from their summer quarters. Plunged as they are to the rim of the pot and spaced so that it is an easy matter to get around them, no time is better for pruning. There is a direct opposition in the method employed to prune trees that are grown in pots to those that are growing on the trellis. The former should be kept pyramidal in shape, making a center or leader essential, while trellis trees are best with the center left open. When disbudding was properly attended to in the spring there will be very little wood to be cut out. Remove any that is crossing a neighbor, also any that makes the trees unshapely. Shape should always be considered, as a one-sided tree is not profitable, but the greatest factor is the fruiting buds for next spring. A tree having plenty can be put into good shape but where they are scarce we sometimes reluctantly have to leave all the wood bearing the promise of a crop next year. At the time of disbudding some of these can often be removed if there is enough to make a crop without the fruit they carry. Use a sharp knife for all pruning.

The First Frost

The first frost is welcomed more in the early fruit houses than elsewhere, coming as it does to herald a few weeks' rest for the tired subjects found there. It is generally noticeable that we get one frost of sufficient severity to cut down all tender growth, after which we are exempt for a short while. This has often been our experience. I do not think it is wise to let the first or second frost cut in on the vines and trees that are more tender than those growing outside; rather let them down gradually. Put a minimum of 35 deg. on them for a while and after they have gone down to this two or three times let them have all that is coming for a while.

Crowding Plants in the Fruit Houses

With the advent of frost it is a common occurrence to see the fruit houses crowded out with flowering plants or shrubs. In many instances this is unavoidable and is no great detriment to the vines for a short time so long as they are free from the many pests that we are continually fighting. It is most disappointing to a man after warring against mealy bug say for instance, all the growing season through, and promising them all he knows from his undertaker's dictionary during the winter cleaning to find a new and vigorous stock imported into his domain through the intrusion of plants that are infested. It is of no use to say syringe them with some insecticide or other or fumigate them and the bugs are all dead. Some will go as far as to tell you to give them a good syringing with the hose and that is the end of them. Is it? Where do they go to? Bug is a hard thing to get rid of, once it is in a vinery or peach house. If your houses are clean now, keep them so and take no chances of getting them infested.

Winter Cucumbers

Keep the winter cucumbers going along all the time; any check will take some time to be made up. Frequent top dressings are much better than a large quantity at any one time. Use the best loam procurable, broken up into small lumps. Mix in two parts of rough leaf soil to every three of loam and add a little fresh horse manure. It is not necessary to make this very firm; a gentle pressing with the hands will be sufficient. Keep a sharp lookout for red spider, as they will do a great amount of damage in a short time.

Parsley

Parsley will be needed on every private place during the winter months and provision should be made at once to accommodate some of it in the greenhouse or heated frames so that it will take hold of the soil in its new quarters and make a little growth before the short days set in. If no sowing was made especially for it remove some of the latest sowing from the garden. Protect a few rows of the best growing in the garden and later on they can have some dry leaves thrown over them which will furnish a supply until the real bad weather sets in.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Cuttting

Now that the cooler weather is here to stay, as we may safely say, you cannot make a greater mistake than to cut your roses too tight. A trip through the cut flower market last week displayed a large amount of roses cut practically green, that would take a long time to look anything like what fresh cut roses should. They will open, of course, but they will never be near as large as the roses that have been allowed to develop their full size before they are cut and shipped off to the markets, where they will no doubt bring much less than the large buds. American Beauties, especially, will be found harder to dispose of than the ones that will be cut when they ought to be. Do not, however, let them go too far, for the market has no use for overblown roses.

Packing

As much as has been said and written on this subject, much stock is practically ruined by being very carelessly packed for shipment and, as a result, the roses appear in the market bruised and broken. Growers should remember that the roses have to be handled a number of times before they finally arrive at the homes of the people who buy them, and then they can picture how they would look if they leave their greenhouses all bruised. Handle them as carefully as possible, and instruct all your men to do the same. Men who really take interest in their work, and who have the welfare of their business at heart, will hardly have to be instructed in their ways. With new and inexperienced help, it is different, and the training of the proper methods should begin at once, for once the system is learned the men will not do wrong, as a rule.

Mulching the Early Houses

The early planted houses will now be pretty well cut off the first crop and as soon as the breaks begin to appear a little bone meal may be applied, followed by a light mulch of manure. This being the second, the dose need not be as heavy as the preceding mulch. After watering it into the benches it is well to allow the plants to become a little dry before the second watering is given. The object is to allow the new breaks to strengthen sufficiently before they are forced to grow up fast. Should they be forced from the time that they are starting, a large number of them will be weak and will not have the stem that well-grown stock should possess.

The Proper Height to Cut Beauties

In cutting Beauties it is well to remember that the higher they are cut from the bench the harder the wood below the cut will become. And the harder the wood the more difficult it will be for the sap to flow up to the growths above the so formed joint. Also the plants will be more inclined to break from the bottom, than where the wood can be kept soft all the way down to the soil in the benches. We try to have the first wire about a foot above the bench, and then we cut two eyes above the first wire, except in the very front row, where the breaks coming from below can be cut two eyes from the nearest joint, as is the case with Teas. We would even have the wire lower but for the fact that it is hard to get at the bench, where the plants are planted four rows to the bench.

The Yellow Leaves

It is almost too early in the season to look for these, and yet they will be likely to appear here and there. Keep these picked off the plants as much as possible. Special time should be given to this work, for although it looks very useless, still it does away with a hiding place for insects and fungus spores. It will also add appearance to the plants, as is needless to say. Keep a close watch for the spot, and you will be killing two birds with the one stone.

Feeding the Plants with Manure Rich in Nitrogen

In using manures which are known to contain large amounts of nitrogen great care should be exercised so as not to apply too much of this manure at one time. This would not hurt the plants very much later in the season, when the temperature of the houses can be controlled, but now when the thermometer is bound to run up on the clear warm days, it is better to go slow, for an overdose of this would mean soft plants, and soft plants are very hard to keep clean during the dark, damp spells that our climate seems to be subject to. Another reason for withholding the nitrogen is that the plants will likely produce weak stems, which are very undesirable in the flower trade as a rule. And the weak stems do not end there either, for they can be traced into the next crop, as the growths will not be as strong as the ones from good strong eyes, on good sturdy wood.

Repairing the Broken Glass

Only a few weeks left in which this can be done right, and growers should lose no time in getting their houses repaired. Happy the man where a pane of glass is put in at once, right after being broken, and the job is not put off until sometime when there is little to do. This usually means when the first snow begins to blow in and then the night fireman is usually the one who has the honor to do with all kinds of remarks that which should have been done long ago. Lantern light, and cold weather does not go with glass repairing very well, and generally a few panes of glass are broken, for as is very likely there is not a decent glass cutter on the place, and the glass will not fit. A good glass cutter can be had for ten cents, so invest a dollar now and then in glass cutters, and reduce the amount of glass used on the place for repair work.

HORTICULTURE

VOL. XVIII OCTOBER 4, 1913 NO. 14

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Plant Laboratory at the College of Pharmacy, University of Minnesota, St. Paul, Minn.

NOTES ON CULTURE OF FLORISTS' STOCK:
Irises—Lilium Formosum—Otaheite Orange—Orchids—Peonies—Stock Plants of Chrysanthemums—*John J. M Farrell*..... 461

FRUIT AND VEGETABLES UNDER GLASS:
Care of Late Vinery—Prune Pot-Trees—The First Frost—Crowding Plants in the Fruit Houses—Winter Cucumbers—Parsley—*George H. Penson*..... 462

ROSE GROWING UNDER GLASS:
Cutting—Packing—Mulching the Early Houses—The Proper Height to Cut Beauties—The Yellow Leaves—Feeding the Plants with Manure Rich in Nitrogen—Repairing the Broken Glass—*Arthur C. Ruzicka*.... 463

OUTDOOR FRUIT AND VEGETABLES:
Preparing for Next Season's Work—Potash Manuring—Lime—Basic Slag (Phosphatic Manure)—Transplanting and Pruning—Globe Artichokes—*Edwin Jenkins*..... 465

PLANT LABORATORY AT THE COLLEGE OF PHARMACY, UNIVERSITY OF MINNESOTA, ST. PAUL, MINN., Illustrated..... 465

CLUBS AND SOCIETIES:
New Jersey Floricultural Society—Gardeners' and Florists' Club of Boston, Illustrated—Rhode Island Horticultural Society..... 466
Club and Society Notes..... 467

A POT PLANT FARM..... 470

WALTER MOTT'S NOTES BY THE WAY..... 470

OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 472
Flowers by Telegraph..... 473
Florists' Telegraph Delivery Association—*Henry Penn* 474

A GLIMPSE OF WAVERLEY, MASS..... 474

FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, New York..... 477
Philadelphia, Providence, St. Louis, Washington.... 479

OBITUARY—Mrs. Henry Trochsler—William Elias—Justus Geist—Mrs. Otto Goerisch—The Late George McWilliam, Portrait—William Lorman, Sr..... 484

MISCELLANEOUS:
Personal..... 468 473
In Bankruptcy..... 468
Onions for Winter Forcing—*Edwin Jenkins*..... 470
Chicago Notes—Washington Notes..... 475
Philadelphia Notes..... 475
Incorporated..... 484
Catalogues Received..... 485
Greenhouses Building or Contemplated..... 486
Patents Granted—News Notes..... 486

An uncracked nut

According to the Minneapolis Journal, fruit growers of that State are permitting thousands of bushels of the finest apples to rot on the ground because prices offered do not warrant the orchardists in gathering and marketing them. Apples in Newark Centre Market are quoted at from twenty-five to forty cents a half-peck, or from $2 to $3.20 a bushel. The farmer can't afford to market his apples because of low prices and the public can't afford to buy them because of high prices. Seems to be something wrong here somewhere.—*Newark Evening News.*

If the foregoing is true—and we have no reason to doubt it—there certainly is "something wrong somewhere." And when we read in one of our contemporaries that French-Roman hyacinths are unobtainable and in another contemporary of same date that there is a surplus of these bulbs in French hands, "there is something wrong somewhere." And, again, when we see flowers piled up in wholesale markets or lugged away by street speculators at bargain counter prices while, according to reports, other places are suffering from a flower famine, isn't it reasonable to infer that "there is something wrong somewhere?" Respectfully passed along without further comment to the "Publicity Committee."

Vicious tactics

Referring to the practice of renaming or misbranding varieties of plants, concerning which we wrote in condemnation in a recent issue, we should suppose that all fair-minded and honorable men would agree as to the grievous injury inflicted on the business by the indulgence in such tactics. We are, therefore, greatly surprised to have one correspondent assert as a sort of justification, that this renaming business "is constantly done by all growers" of a certain specialty. How many there may be who believe likewise we know not but it is much to be deplored that even one of the horticultural fraternity should harbor such a wretched opinion of his fellow-workers. Besides, the charge is not true. There are exceptional cases where the renaming is done and the parties who are guilty are the sufferers in the long run because they soon become marked men in the trade. Statements in their catalogues are accepted at a discount and their specialties, if bought at all, are bought with mistrust. Instead of condoning, it is the duty of everyone to raise his voice in condemnation and to do his best by influence and example to put a stop to this evil which has so often in the past brought confusion and discredit to our business.

"United we stand"

We are pleased to note that the joint committee of the New York State Federation of Florists' Clubs, State Vegetable Growers' Association, State Fruit Growers' Association and Western New York Horticultural Society are promptly getting busy under their indomitable chairman, W. F. Kasting, on their assigned duty to endeavor to secure a new horticultural building at the state fair grounds in Syracuse. The horticulturists of the Empire State should have a creditable exhibition building. The acquiring of such will serve as an example and incentive to other states and we wish the committee and the organizations which they represent all the success they deserve, but perhaps the most hopeful and promising feature of this movement is the alliance of all these related but hitherto segregated interests for united effort in a common cause. It is indeed strange that the diversified horticultural interests of the country have not recognized the value of associated work and the advantage to be gained by the strength of numbers. If the co-operative spirit now manifested should continue and grow we can see how horticultural industry will quickly come into its own as a potent force in state and nation.

OUTDOOR FRUIT AND VEGETABLES

Preparing for Next Season's Work

October is a great month for preparing for next season's work. The ground is usually fairly dry and in far better condition for working than in early spring. If your garden has any spots which you remember were a little too wet last spring now is the time to get in a tile drain to the nearest convenient outlet. Three inch tile will be large enough as well as small enough, and don't forget to put it down at least four feet below the surface.

Potash Manuring

Because there is great danger from burning if high-grade sulphate or muriate of potash is used in spring it is far better to "do it now," so as fast as the ground is cleared of crops sow 200 pounds per acre of either of the above forms of potash and its burning qualities will be all washed away by the time of next growing season's advent.

Lime

Where quantities of farm-yard manure has been used on the garden year after year an annual application of about a half-ton per acre of fine ground or air-slaked lime will be very beneficial, in fact a necessity. It is a good plan to apply this dressing as evenly as possible over the surface and then rake or harrow it in.

Basic Slag (Phosphatic Manure)

If basic slag is used as a source of phosphoric acid (and it is at once one of the cheapest and best sources) it should always be applied in autumn if results are to be expected during the following growing season. Insist upon a finely ground sample, otherwise it will be very slow in producing results. From 10 to 20 hundred pounds to the acre is about the right amount.

The foregoing recommendations for the garden proper are especially applicable to the orchard and all the small bush fruit trees such as currants, raspberries, etc.

Transplanting and Pruning

The small fruit bushes such as currants and gooseberries are very apt to grow on until their condition is like unto the slums of the great cities—"overcrowded." Look them over carefully and if they are approaching this condition, get busy! And either lift some of the plants and replant where conditions are better or else go in with the pruning knife and cut away all of the old wood which has fruited and even some of the younger wood if necessary so as to give the remaining branches abundance of sun and air. Raspberries should have had all their old fruiting canes cut away ere this, but if this has not been done certainly no time should be lost in carrying it out as the young canes which are to fruit next year will be sure to stand the winter better for the ripening they will get from the increased exposure to the sun.

Globe Artichokes

Select those plants which gave the finest samples of product and mark them to be lifted later for next year's stock, as this is the only way to get the finer types as amongst nearly every lot of seedlings there are a lot of worthless kinds.

Edwin Jenkins

Lenox, Mass.

PLANT LABORATORY AT THE COLLEGE OF PHARMACY, UNIVERSITY OF MINNESOTA, ST. PAUL, MINN.

(See Cover Illustration.)



In order to pass upon the identity and quality of vegetable drugs and their preparations, the pharmacist must have a thorough understanding of the plants from which the drugs are obtained. The Medicinal Plant Garden is maintained by the College of Pharmacy primarily to increase the facilities of the college in giving instruction of this character. Over 70 per cent of the plants yielding official drugs are under cultivation and several hundred species yielding unofficial drugs are also grown.

The value of the drug garden as an educational factor has been so clearly demonstrated during the past two years that a medicinal plant laboratory has just been completed wherein the work of studying medicinal plants will be continued through the winter months and where tropical medicinal plants will be grown. This laboratory, which has the outward appearance of a greenhouse or palm house, is 38 x 61 feet in size, with two floors. The superstructure represents the latest type of the Lord & Burnham steel frame, curved-eave greenhouse construction, with the ridge 26 feet above the floor, allowing ample room for growing tropical medicinal trees.

The upper or main floor will be used exclusively for the culture and study of the growing plants. The arrangement of the plant benches and students' work tables is unique in that over 2500 square feet of space is available. This large amount of space was secured by placing the students' work tables, which are of concrete, around the sides and by constructing a large open pyramid in the center of the house for the plants. Under the pyramid provision has been made for shade-loving plants and for starting roots from the cold storage room, etc. A large concrete aquarium, conveniently located, gives ample room for aquatic plants. In the fall of the year the pyramid will be packed with medicinal plants potted in the garden by students and these will be used for study during the winter. The potted plants having been used up by early spring, the space is then devoted to the propagation of new plants for the garden, over 20,000 of which were produced during the past spring. Steam coils are located under the various plant benches, each on separate valves, hot and cold water faucets, and electricity for light and power are provided, giving complete facilities for the determination of the effects of physiological factors upon the medicinal value of plants.

CLUBS AND SOCIETIES

NEW JERSEY FLORICULTURAL SOCIETY.

The eighth annual Dahlia, Fruit and Vegetable Show of the above society was held in English's banquet hall, East Orange, N. J., on Saturday and Sunday, Sept. 27 and 28. The hall was completely filled with exhibits, making this the best show the society has yet held. The weather proved fine both days, making the attendance from neighboring towns very good indeed.

List of Awards.

Hitchings & Co. cup for 36 dahlias in 12 vars.: H. Darlington, gard. P. W. Popp; 2nd prize to Mrs. H. Graves, gard. E. Thomas; 3rd, D. Kindsgrab, J. Lewis Childs cup for 50 single dahlias: Mrs. Wm. Barr, gard. E. Panuska. Michell Co. medal for 25 Show dahlias and prize for 25 decorative: M. B. Metcalf, gard. George Wraight. Michell medal for 25 cactus dahlias: G. S. Stillman. Dreer prizes for centerpiece of dahlias: Essex County Country Club, gard. Frank Drews, 1st; H. Darlington, 2nd.

In the miniature garden competition: C. C. Goodrich, 1st; C. F. Rand, gard. Wm. Zeidler, 2nd; and Essex County Country Club, 3rd. In fruits: S. & M. Colgate, 1st; and C. C. Goodrich, 2nd.

First-class certificates were awarded as follows: A. C. Van Gaasbeck, gard. A. P. Wenzel, for decorative dahlias, also for show dahlias and white decorative dahlias; S. and A. M. Colgate, gard. Wm. Reid, for yellow show dahlias, pink show dahlias, red show dahlias and bronze show dahlias; Mrs. Wm. Barr, gard. E. Panuska, white show dahlias, red decorative dahlias, pink cactus dahlias, six show dahlias, best cactus dahlias; Mrs. Chas. Hathaway, gard. Max Schneider, maroon show dahlias; C. C. Goodrich, gard. F. Bergelund, pink decorative dahlias, maroon decorative dahlias, six decorative, six cactus, best show and best decorative dahlia; Lager & Hurrell, collection of orchids; Mrs. C. Hathaway, celosia; Mrs. S. M. High, dahlias; W. A. Manda, seedling dahlias; Frank Drews, seedling rose. Cultural certificate to C. C. Goodrich, for celosia. Special mention to Mrs. Chas. Hathaway, for gladioli. Vote of thanks to S. and M. Colgate, for dahlias; A. C. Van Gaasbeck, for peony-flowered dahlias and mixed dahlias. W. A. Manda staged a very effective group of foliage plants and ferns, including the celebrated Polypodium Mandaianum.

The judges were Wm. H. Duckham, C. H. Totty and John E. Lager.

G. W. STRANGE, Sec'y.

Orange, N. J.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the Club will be held at Horticultural Hall on Tuesday evening, October 14, at 8 o'clock, the halls of the Massachusetts Horticultural Society being all rented for October 21, the regular date of the meeting. The speaker of the evening will be M. C. Ebel, Madison, N. J., secretary of the National Association of Gardeners, on, "Who is the Real Gardener?" Exhibits of early chrysanthemums and other seasonable flowers are particularly desired at this meeting.

The secretary will be glad to have the names and addresses of any additional members who may wish to take landscape gardening courses the coming season, as it is desired to start these classes as soon as possible.

W. N. CRAIG, Secretary.

The Horticultural Club of Boston held its monthly meeting at the Parker House on Wednesday evening, October 1. E. O. Orpet, of Lake Forest, Ill., and Eber Holmes, of Montrose, Mass., were guests. Louis J. Reuter brought a vase of flowers of a new bright red rose of foreign origin, which created a favorable impression.

RHODE ISLAND HORTICULTURAL SOCIETY.

The annual September display of the Rhode Island Horticultural Society was held on Sept. 23 and 24, in the parlors of the Mathewson Street Methodist Episcopal Church, Providence, and one of the largest and most attractive exhibits of flowers, fruits, vegetables and honey ever shown in this city, was viewed by a large number of persons. Exhibits by pupils of Webster avenue and Grove street grammar schools were a credit to the schools, the displays consisting of both flowers and vegetables. The dahlia displays were very extensive, there being no less than fifteen large exhibitors of these as specialties.

E. K. Thomas of the Rhode Island State College, was superintendent. Heretofore the blooms have been shown on flat tables. This fall Mr. Thomas introduced an innovation in the way of benches with a step formation, starting one foot from the floor with four tiers, the maximum height being four feet. This scheme gave a pleasing effect and made a hit with visitors and exhibitors alike.

Charles M. Bogholt, gardener for Miss Fanny Foster, Newport, won the first prize for the best 1913 cactus variety, which he has named the Golden Crown. A. E. Johnson, of Montello, Mass., won the honors in the open class for the best bloom shown by originator, the Marjory Field. They were not in competition. Sisson & Thurston, of Newport, who make a specialty of cactus dahlias, carried away six firsts. Lewis A. Jillson, of Lakewood, was awarded first prize for a collection of 100 blooms any variety,



MEMBERS OF THE GARDENERS' AND FLORISTS' CLUB OF BOSTON AT THE FARQUHAR NURSERIES, DEDHAM, MASS.

"They are doing things in Cleveland"

"The Ohio Horticultural Society"

AND

"The Cleveland Florists' Club"

Announce Their

Second Annual Flower Show

November 13-14-15, 1913

Write for Premium List to JOHN BODDY, Chairman Exhibition Committee

City Hall, In Care of Forestry Department, Cleveland, Ohio

In Writing Advertisers Kindly Mention HORTICULTURE.

the display being uniform in size and color, and the flowers large and rugged. W. D. Hathaway, of New Bedford, Mass., received four firsts and six seconds, and William Steele, of Auburn, captured two firsts and one second. The judges were Alexander McLellan, of Newport, and Eugene Appleton, of Providence.

CLUB AND SOCIETY NOTES.

The Rochester Florists' Association are planning for an extensive fall show to be held in Convention Hall, opening Nov. 4.

The St. Louis Ladies' Florist Circle will meet next Wednesday afternoon, October 8th, at the home of Mrs. E. Schray, 4100 Pennsylvania Ave.

The St. Louis Florist Club will hold its regular meeting on Thursday, October 9th, at 2 P. M. The newly-elected officers will officiate for the first time.

The annual flower show of the Spokane, Wash., Horticultural Society, opened on Friday, September 19. The city parks as well as many private estates were well represented in the displays.

The florists of Newark, N. J., and vicinity, have organized the Essex County Florists' Club with the following officers: Edward Jacobi, president; G. W. Mueller, vice-president; John Crossley, secretary; August Begerow, treasurer.

The Florists' Club of Washington, D. C., will hold its next regular meeting at their quarters, 1214 F street, Northwest, Tuesday evening, October 7. Many matters of importance are scheduled to be taken up and some little entertainment may be expected.

The Preliminary Schedule of Prizes of the Massachusetts Horticultural Society for the year 1914 is out and copies may be had on application to the secretary, W. C. Rich, Horticultural Hall, Boston, Mass. Twelve regular exhibitions are listed for the year.

The Florists' and Gardeners' club of Holyoke and Northampton, Mass., resumed its monthly meetings for the season at the greenhouses of G. H. Sinclair on Tuesday evening, Sept. 23. The chief business of the evening was to make the necessary arrangements for the flower show which is to be held in Holyoke, Nov. 16.

At the monthly meeting of the Minnesota State Florists' Association, held last week, the following officers were elected for the coming year: President, O. J. Olson, St. Paul; vice-president, Wm. Desmond, Minneapolis; secretary, Gus Malmquist, Minneapolis; treasurer, E. P. Holm, St. Paul; executive committee, Theo. Wirth, A. Lauritzen, Hugh Will and Prof. L. R. Cady.

A very tempting preliminary premium list is being sent out by the Horticultural Society of Chicago for its Spring Flower Show, March 24 to 29, 1914. This will be the twenty-second annual event and it is safe to predict that it will surpass all the others. There are 110 classes which include flowering plants, miscellaneous, bulbous, orchids, roses, ferns, palms and foliage. There will be 46 cut flower classes. Medals for special features are offered and 10 classes for private gardeners complete the list. R. J. Haight, Secretary, 536 S. Clark street, will mail lists upon application.

DURING RECESS.

The Cook Co. (Ill.) Florists' Association's bowling league is now organized with four three-men teams, to play ninety games or thirty series. The league is composed of Wm. Lorman, secretary; Allie Zech, John Zech, J. Jacobs, F. Krause, E. Armstrong, Wm. Wolf, F. Ayers, L. Koehler, J. Byers, Geo. Econemopulos and Otto Goerisch. The opening game was scheduled for Oct. 1st., but was postponed one week owing to the death of the secretary's father and of Mrs. Goerisch.

A team of five, known as The Florists, in the North Chicago League, have been organized by Ernest Farley. The bowlers are E. Farley, W. Wolf, J. Huebner, Fred Price, W. Lorman.

The Extension Service of the Massachusetts Agricultural Society has inaugurated the publication of a periodical news service covering the several branches of the extension work and other items of agricultural and general interest, local and state-wide. Erwin H. Furbush is Supervisor of Correspondence and Lecture Courses.

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 $50.00 per 1000

Can Ship as soon as frost comes to harden them up—about October 12

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

STRAWBERRIES

POT-GROWN PLANTS

All the Leading Varieties
.... for ....

Immediate Planting

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

CALIFORNIA PRIVET

2 Years Old

12 to 18 inch,	$10 per 1000
18 to 24 inch,	12 per 1000
2 to 3 feet,	15 per 1000

Cash with Order

We also carry a full line of Nursery Stock and would be pleased to quote you on your full want list.

THE LANCASTER COUNTY NURSERIES
DAVID S. HERR, Prop.
R. F. D. No. 7 LANCASTER, PA.

When writing to advertisers kindly mention HORTICULTURE.

PERSONAL.

A. H. Bunde, one of the oldest florists in St. Paul, Minn., has retired from business.

John R. Fotheringham, of Tarrytown, N. Y., and Mrs. Elizabeth Weir Shank, of San Francisco, Cal., were married on September 9th.

John Stuppy, of St. Joseph, Mo., and Miss Marie Elizabeth Eberhart, of Chicago, Ill., were married on September 25th. They will be at home after November 15th at 609 N. Elizabeth street, St. Joseph, Mo.

Maurice Fuld, recently with Michell, Philadelphia, has bought an interest in the Knight & Struck Company, New York, and a complete line of flower seeds, plants and bulbs will be added. Mr. Fuld personally looking after this department as well as perennials.

Boston visitors: E. O. Orpet, Lake Forest, Ill.; Dr. Geo. E. Stone, Amherst, Mass.; Jas. S. Bonbright, representing Penna Lawn Mower Co., Phila., Pa.; L. W. C. Tuthill, New York; F. W. Armitage, representing Hitchings & Co., New York; L. J. Reuter, Westerly, R. I.; Mr. and Mrs. E. J. Harmon, Portland, Me.

IN BANKRUPTCY.

Chicago, Ill.—American Horticulture Company, landscape architects, Monadnock Building; liabilities, $17,000; assets, uncertain.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Finest Plants Ever Offered.

2½-in pots, $15.00 per 100.
3 in. pots, $20.00 per 100.
3½-in pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING

Tausendschoen and all the Ramblers.

A. M. DAVENPORT

WATERTOWN, MASS.

Mention HORTICULTURE when writing

HAVE THEM SHIPPED NOW

Before Cold Weather Comes

Fine Stock for Present Use and to Grow On for Christmas

BEGONIAS

Glory of Cincinnati—2¼ in., $16.00 per 100.

Gloire de Lorraine—2½ in., $12.00 per 100; 5 in., extra strong, $6.00 per doz.; 6 in., extra strong, $9.00 per doz.

Azaleas—All sizes, shipments just in.

Chrysanthemums—6 in. pots, $4.00 to $6.00 per doz.

Cyclamen—$2, $4, $6 and $9 per doz.

Poinsettias—4 in. pans, $6 per doz.; 6 in. pans, $7.20 per doz. and up.

Primroses—3½ in., $1.50 per doz.

Geraniums—5 in., dark red and pink, $3.00 per doz.

Palms and Roosevelt Ferns, all sizes. Cash or satisfactory reference.

W. W. EDGAR CO., Waverly, Mass.

Mention HORTICULTURE when writing

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Mention HORTICULTURE when writing.

When writing to advertisers kindly mention HORTICULTURE.



IF YOU ARE IN NEED OF

HARDY PERENNIAL PLANTS

"Get them at Dreer's"

This Fall we are better than ever prepared to serve you with this class of stock and particularly call your attention to our *"Specials"*

JAPANESE IRIS GERMAN IRIS
HARDY PERENNIAL PHLOXES
DOUBLE HERBACEOUS PAEONIES

Send for our special circulars describing these if you have not already received copies.

Our ***Current Wholesale List*** describes all other seasonable stocks. Consult it before you place your orders.

HENRY A. DREER, Inc.

714 CHESTNUT STREET - - PHILADELPHIA, PA.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. **Subscription price $1.00 per year. Foreign subscriptions $1.50 per year.** In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

WANTED

400 American Ash Trees, 3-4 inches in Diameter

Good clean specimens well furnished with symmetrical heads and fibrous roots. To be used in street work. In replying state when last transplanted and where located.

OLMSTED BROTHERS
Landscape Architects, BROOKLINE, MASS.

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid.
Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.
Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. **Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.**

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

When writing to advertisers kindly mention HORTICULTURE.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**
Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

Very Large Evergreen and Deciduous Trees
LARGE PRIVET
The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V Pres. & Secy
FAIRFIELD LANDSCAPE & NURSERIES CO.
ENGINEERS AND CONTRACTORS
Parks, Cemeteries, Golf Courses
Planting, Landscape Construction, Road Building, etc.
41st Street and Park Ave., NEW YORK

A POT PLANT FARM.

The enormous consumption of small ferns for jardiniere planting and table baskets, cannot be fully realized until one has visited some of the establishments making a specialty of raising and supplying this material. One of the sources of supply for the Boston market and New England generally, is at A. M. Davenport's, in Watertown, 4 miles from Boston. Young ferns are here mentioned not in thousands but in hundred thousands and shipping is going on from morning to night every day. Here is probably the largest stock ever seen in this country of the much prized "Bird's Nest" fern, Asplenium Nidus Avis, of which there are estimated to be not less than 30,000 now in small pots and probably 100,000 in seedling pans.

Mr. Davenport has added one house this season to his already large range, which is 41 x 200, and is getting ready for another about the same size, and he will need them judging from the young plant stock coming on. The finest Lorraine and Cincinnati begonias the writer has ever seen are here, from 2½ in. up to 6 in. and larger, there being 7,000 of the latter of unprecedented luxuriance and texture. Mr. Gough, the grower and foreman of the establishment, says that these are all from leaf cuttings struck last December and January and that their astonishing growth in this brief period is due to nothing more than some cow manure mixed in the potting soil and the maintenance of a regular night temperature now of 60 degrees. These plants are worth a long trip to see. Much interest is taken in one form which is believed to be a sport from Lorraine, with foliage and flower considerably larger and growth much more robust than the type.

The general run of decorative plants, such as cyclamen, azaleas, ivies, palms, araucarias, holly ferns, etc., are seen here in quantity and high quality. Among the things not generally seen are browallias and the lovely little sky-blue daisy Agathæa cœlestis; 3,000 azaleas held over from last year's importations and planted out in summer, are thickly set with buds and with their dark glossy foliage are distinctly superior to any directly imported stock—an object lesson which carries a valuable suggestion to plant growers. As with the begonias the cyclamen are beautiful demonstrations of cultural skill. There are lots of them but they will not last long when the trade gets to stocking up on high-class Christmas flowering plants.

MICHELL'S INTERMEDIATE GIANT FLOWERING

Sweet Pea -- Blanche Ferry

A novelty of extraordinary value to the florist. Seed sown in October will commence flowering March 15th and continue through April and May. Three to four extra large blooms are produced on long stems from 16 to 20 inches in length. The culture of this variety is the same as all other Winter Flowering sorts, except that it should be sown during the month of October. Our seed is original greenhouse grown stock. Per oz., $1.00; $3.50 per ¼ lb.; per lb., $12.00.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

SEND FOR OUR WHOLESALE CATALOGUE IF YOU HAVEN'T RECEIVED A COPY.

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

WALTER MOTT'S NOTES BY THE WAY.

Louisville, Ky.

The season has opened up very auspiciously here with store openings, social functions and the like.

Knoxville, Tenn.

C. W. Crouch has resigned the leadership of a swell orchestra which he held for a quarter of a century and gave much time. He has completed a large range, growing entirely for his downtown store.

The recent rains have given the seedsmen quite a rush for seed for fall sowing. D. R. Mayo, a pioneer in the trade, remarked that he does not remember handling grass seed, particularly clovers, of purer quality and plumpness. The tendency of the southern market is for lower prices, although the higher grades are quoted considerably lower than last season. Bulb trade is opening up well. A frost occurring in the northern part of the state cut down all outdoor flowers and many gardens are being cleaned up preparatory to planting bulbs.

As announced in our advertising columns, Charles Schwake, for many years with Chas. F. Meyer, has opened for himself as bulb and nursery stock importer at the corner of Warren street and West Broadway, New York. Many years of experience have given Mr. Schwake a very wide acquaintance with the trade and the goods and he will undoubtedly score a success from the start. Among the foreign houses he will represent is that of Aug. Hohman, lily of the valley exporter, Hamburg, Germany, for whom he will have the exclusive American agency.

ALL SOLD OUT.

HORTICULTURE:

Kindly discontinue my Carnation advt. in your Buyers' Directory. Stock all sold. EDMUND REARDON.

ONIONS FOR WINTER FORCING.

Editor HORTICULTURE:

Dear Sir:—Please tell me which is the best kind of onions to grow under glass, for sale through the winter, also what temperature. Thanking you in advance, I am,

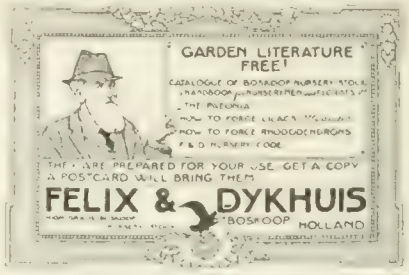
Yours truly,

Mo. R. L. I.

Replying to the above inquiry about the best onion for winter-forcing under glass: The writer knows of nothing better than the Early White Barletta. This is a good, easily grown variety which reaches a size fit for use in the shortest possible time. Sow in flats or benches in a night temperature of 55° to 60° and ranging to 65° during the day. Syringe frequently to keep spider in check.

E. JENKINS.

Lenox, Mass.



GIANT PANSIES—Sow Now

Special Florists' Mixture. $4.00 per oz., 50c. tr. pkt. **Trimardeau Selections,** mixed, $4.00 per oz., 50c. tr. pkt. **Trimardeau,** fine mixed varieties, $1.50 per oz., 25c. tr. pkt. **Cassier's Giants Improved,** splendid mixture, $5.00 per oz., 50c. tr. pkt. **Trimardeau Sorts** as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. **$1.00 Trade pkt. $12.00 ounce.**

GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. **50c. Trade pkt. $5.00 ounce.**

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Mr. Maurice Fuld

Formerly of Philadelphia and Boston becomes

VICE-PRESIDENT

of this Company

October 1st, 1913

Knight & Struck Co.

Seeds, Bulbs, Plants

1 Madison Avenue
New York

The Home of Heather

NEW WINTERFLOWERING
SWEET PEA LIST
has been mailed. If you have not received one, drop me postal.
ANT. C. ZVOLANEK
Greenhouses: BOUND BROOK, NEW JERSEY
Seed Ranch: LOMPOC, CALIFORNIA

Removal Notice
On and after this date our address will be
98 Chambers St., N. Y.
Between Broadway and Church St.
BURNETT BROS.
Seedsmen
CALL AND SEE OUR NEW OUTFIT

In Writing Advertisers Kindly Mention HORTICULTURE

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

Place Your Order Now For
AYRES' WINTER FLOWERING
SWEET PEA SEED
For Fall Delivery
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
Sunnyslope Independence, Mo.

FOTTLER FISKE RAWSON CO.,
LILIES BOSTON
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

PANSY SEED
Specially Blended for Florists Use.
TRADE PKTS. $1.00.
Wm. Elliott & Sons
42 Vesey St., New York

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS
Send us your wants. We will take care of them. We supply stock at market price.
Catalogue for the asking
S. S. SKIDELSKY & CO.
1215 Betz Bldg. Philadelphia.

MUSHROOM SPAWN.
New Shipments Just Received
English Finest Quality....$ 8.00 per 100 lbs.
American Pure Culture...$12.00 per 100 lbs.
WEEBER & DON
Seed Merchants, 114 Chambers St., New York

The Everett B. Clark Seed Co.
GROWERS FOR THE TRADE
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches: Michigan and Wisconsin MILFORD, CONN.

Braslan Seed Growers Company
Large wholesale growers of Onion, Lettuce, Carrot, Radish, Mustard, Parsnip, Parsley, Celery, Asparagus, Beet, Endive, Leek, Salsify and Sweet Peas
SAN JOSE, CALIFORNIA

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

FREESIA

	100	1000
REFRACTA ALBA, ⅜ to ½ in. diameter	$0.60	$4.00

LILIUM HARRISII

	100	1000
7 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15	$3.50	$32.00
NARCISSUS, Paper White Grandiflora, 13-15	1.25	8.00

HAVE YOU OUR FLORISTS' CATALOG?
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 16) NEW YORK, N. Y.

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

QUALITY SEEDS BULBS PLANTS
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders

IN WISCONSIN

C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH

Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.

(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.

Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.

J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

Houlton, Me.—H. L. Chadwick.

Williamsport, Pa.—Kester & Harden.

Stapleton, L. I., N. Y.—William L. Trumpore.

New York, N. Y.—Siegfried J. Kracke, 3587 Broadway.

Pittsburgh, Pa.—Wm. L. Baker, 120 Anderson street.

Worcester, Mass.—Quarry Floral Co., 150 Franklin street.

Philadelphia, Pa.—Charles Henry Fox, 221 S. Broad street.

Louisville, Ky.—Stewart Dry Goods Co., Miss Emma Pulford in charge.

STEAMER DEPARTURES

Allan.

Scotian, Montreal-London ... Oct. 5
Virginian, Montreal-Liverp'l.. Oct. 7
Corinthian, Montreal-London Oct. 12
Tunisian, Montreal-Liverp'l ... Oct. 14
Parisian, Boston-Glasgow ... Oct. 17

American.

New York, N. Y.-S'hampton.. Oct. 10
St. Paul, N. Y.-S'hampton ... Oct. 17

Atlantic Transport.

Minnehaha, N. Y.-London.....Oct. 11
Minnewaska, N. Y.-London ...Oct. 18

Cunard.

Campania, N. Y.-Liverpool....Oct. 8
Carpathia, N. Y.-Mediterr'n ..Oct. 9
Atlantic, Montreal-S'hampton Oct. 11
Laconia, Boston-Liverpool ... Oct. 14

French Line.

La Lorraine, N. Y.-Havre ... Oct. 8
Niagara, N. Y.-Havre.....Oct. 11

Hamburg-American.

Pres. Grant, N. Y.-Hamburg..Oct. 8
Victoria Luise, N. Y.-Hamb'g Oct. 9
Imperator, N. Y.-Hamburg...Oct. 11
Cleveland, Boston-Hamburg...Oct. 17

Holland-America.

Noordam, N. Y.-Rotterdam...Oct. 7
Ryndam, N. Y.-Rotterdam ... Oct. 14

Leyland.

Canadian, Boston-Liverpool...Oct. 18

North German Lloyd.

Kronprinz Cecilie, N. Y.-Bremen Oct. 7
K. Wilhelm der Grosse, N. Y.-Plym'th Oct. 14
P. Fr. Wilhelm, N. Y.-Bremen.Oct. 16

Red Star.

Finland, N. Y.-Antwerp.....Oct. 10
Lapland, N. Y.-Antwerp.....Oct. 17

White Star.

Adriatic, N. Y.-Liverpool.....Oct. 9
Majestic, N. Y.-Southampton..Oct. 11
Megantic, Montreal-Liverpool.Oct. 11
Celtic, N. Y.-Liverpool.....Oct. 16

Mt. Pleasant, Washington, D. C.—J. A. Phillips, Mt. Pleasant street, near Lamont.

Seattle, Wash.—Arcadian Florists, W. J. Croskill and C. F. Muench, proprietors; Joshua Green Building.

Bridgewater, Mass. — Bridgewater Flower Shop, Chas. S. Cooper, of Brockton, proprietor, 26 Broad street.

Chicago, Ill.—Lubliner & Trinz, florists, have leased from the Washington Company the store and basement at 41 South Wabash avenue for a term of years beginning October 15, at a rental of $65,000 for the term. The lease was negotiated by Willis & Frankenstein.

See Chicago notes for list of four new stores opened in that city.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries
Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflow.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Florists' Refrigerators
Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.
McCray Refrigerator Co.
553 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

PERSONAL.

John McKenzie of North Cambridge, Mass., is a visitor in Montreal this week.

Albert Kinsman Gardner of Rockland, Me., State horticulturist and son of former United States Senator Obadiah Gardner, was married to Miss Florence Zelma Oak of Bangor, on Sept. 24, at the home of the bride's parents, Mr. and Mrs. Charles E. Oak, in Bangor,

M. C. Ebel, of Aphine fame, has taken a brief respite from his warfare on green fly and mealy bug, long enough to get married. Miss Ida Rose Weyers was the fortunate young lady and the ceremony was performed at Madison, N. J., on September 25th. HORTICULTURE extends congratulations.

St. Louis visitors.—Arnold Ringier of Barnard's, Robert Newcomb of Vaughan's, Guy Reyburn of Henderson's, and F. McCabe of Randall's, all of Chicago; Mr. August Dormann, superintendent of public parks at Alton, Ill.; Geo. Madsen of the Alton Floral Co.

IT'S YOURS
FOR THE ASKING
A Postal Request Brings to You Our
FALL SUPPLEMENT
TO OUR
"WILLING HELPER"
Full of Attractive Illustrations of ALL THAT'S NEWEST AND BEST in the Realm of Supplies.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

FLORISTS' TELEGRAPH DELIVERY.

A Factor in Progress.

With reference to the Florists' Telegraph Delivery Association, I want to say that it eventually will give prestige and power to all its members who have the foresight to increase the membership by bringing in new applicants, and also to bear in mind not only new members, but the character and quality of the members.

If properly developed, we have one of the most important factors for progress which our business has developed in recent years. This slogan, "Member of the Florists' Telegraph Delivery Association," if used on all your correspondence, advertisements, or even on your own glass fronts, will have the effect of inducing patrons to ask what the object is, and by knowledge of its doings, etc., you will impress them with such information as will surely be the means of new business in this direction. It could be made in due time to carry as much dignity in being a member of the F. T. D. in connection with flowers, as there is in being a stock broker and a member of the stock exchange. In other words, the F. T. D. could be to the florist as the stock exchange is to the broker. This can eventually be worked out when we have sufficient members in good standing in all cities and towns throughout our country, properly imbued with the fact that it is not alone organized for financial gain, but also for convenience to one another, as well as to our customers in time of emergencies, etc.

Fill Orders Considerately.

This is one of the points we must not lose sight of, that we should, if necessary, fill an order for our brother florist even at no profit to ourselves, so that the order is filled creditably. It will eventually be the means of more business, and in that way will be a gain in the end. Of course, these problems can be worked out later, as we become better acquainted by meeting one another at conventions and flower shows, so that we can better give our views and experiences in filling orders on hurry calls, as we are asked to do and are asking others to do. I merely mention this because only last week, one of our patrons left a small order to be delivered in a small town in New Jersey, and we telegraphed same to our good brother florist, and he filled the order after having to send his automobile some fifteen miles over the road specially with this package, as he would not have had time to catch the funeral any other way. We surely appreciated the service, and immediately sent a letter of gratitude as well as check for his courtesy.

Securing New Business.

We have used the lines: "Flowers delivered in all parts of the United States at one hour's notice," and "Members of the Florists' Telegraph Delivery Association," with great results as a footnote in all our advertisements in the daily and Sunday papers in our city. This has been the means of bringing new business which we feel is partly due to this method. We have never kept any record of our business in this direction, but hardly a day passes but what we send out from three to a dozen orders to all parts of the U. S. As this is but the beginning of what may some day be one of the most important factors in a growing business, one can readily see the necessity of having a chain of good men and good stores to accomplish our purpose.

The telegraph companies in due time will be only too glad to co-operate with us and give us whatever benefits we may want by way of special service or code, if we show results with our association. I have already been approached by representatives of the telegraph companies for information about this organization. Not too much credit can be given the organizers and officers of the association for the good work they have accomplished in so short a time. It shows clearly that we have the right men, but simply need the numbers to accomplish our purpose.

An Emblem Needed.

Another factor in the interest of the F. T. D. most important, is the need of an emblem, same to be copyrighted and used whenever and wherever possible, something similar to the idea now being used by Mackay-Bennet Cable Company for instance. I would suggest that members get ideas suitable for such a purpose and send them to our secretary, who could at the annual meeting refer them to the Board of Directors for approval. Another suggestion would be to have one or more good advertising experts invited at our annual meetings who could enlighten us on subjects pertaining to our line of business. We could all benefit by such talks, and our association could, without doubt, procure the most able speakers without much difficulty. Would also suggest that our secretary have papers read on subjects tending to uplift and incidently point out some of the evils now prevalent which could be easily eradicated.

HENRY PENN.

Boston, Mass.



A GLIMPSE OF WAVERLEY, MASS.

When you say "Waverley," you think of "Edgar." Can't help it. Going anywhere near Waverley, now, one not only thinks but sees it—"Edgar Co." embroidered perpendicularly in black brick on the new 100-ft. chimney of yellow tile, which, just completed, makes a marked feature of the landscape. This smoke stack, 8 ft. in diameter at the base, is part of a new heating equipment installed this season, including two giant Kroeschell boilers, new mains and rearrangement of pipes throughout, as well as some rebuilding which, next season, will be undertaken on a larger scale. Among the improvements made this year is a capacious "coal-hole," 20 ft. deep, with cement walls, into which 240 tons of coal have been dumped as a starter.

The chrysanthemum houses show a very healthy, sturdy lot of the best varieties for the Boston market. These are Golden Glow, which sold well this season and is about finished, Early Snow, White and Yellow Tousset, Wm. Duckham, Dr. Enguehard, Alice Byron, Chrysolora, Timothy Eaton, Unaka, Roman Gold, Bonnaffon, Pacific Supreme and Halliday. Anyone wishing a list of profitable first-class commercial varieties can safely tie to the foregoing. Pot plants, in 6-in. pots, will also be fine this year, stocky and loaded with bloom.

After the chrysanthemums are disposed of the benches will be devoted to azaleas of which some 75 cases are just in port at Boston, mainly the Christmas bloomers. A lot of Firefly and others amounting to several thousands are in frames, having been left over from last season and planted out, and look superior in many respects to freshly imported plants. It pays to keep and care for them here for one season.

Poinsettias are a leading specialty here and are seen in pots singly or in pans—three plants to a 6 or 8-in. pan, five to a 10-in. pan, etc. Cyclamen and Lorraine begonias are extensively grown and will be in prime bloom for Christmas if shipped now and grown along. Genistas are very fine, all pot-grown as the preferable way. Small ferns occupy a large space and are having a heavy sale this season as are Dracæna indivisa, pot-grown, of which there are thousands.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies - the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

CHICAGO NOTES.

E. Kalish, of Kalish Bros., St. Louis, Mo., was called home by the death of his cousin.

The fall sales of pot plants, mostly Boston ferns, have begun at the department stores. No doubt they help to increase the popularity of plants but the prices would work havoc with the business of a regular florist.

Robt. S. Edgar, of Waverly, Mass., who has taken a position as foreman for F. Oechslin at 4911 W. Quincy street, is now getting his family nicely settled at 4910 W. Jackson Blvd. Mr. Edgar is the son of the late W. W. Edgar, of Boston, and has grown up in the business, having had experience both in England and this country. One thing is certain, he will not learn anything wrong in plant growing at Mr. Oeschlin's, so they both are to be congratulated on the opportunity of working together.

Chicago had a record week with the opening of four new flower stores. The Venetian Flower Shop, in the Venetian Bldg., has been rented by Peter Sgoros, who has been in the same business in other parts of the city. Dinger & Black are opening a new store at 211 E. 55th street, or Garfield Blvd., a fine south side location. Fred Dinger has been with Wm. J. Smyth for several years. Roy Berg, who has been with The Globe Greenhouses six years, starts for himself at 5729 Chicago Ave., and Peter Terres, who recently sold his place, known as Columbia Florist, to Albert Cole, has now opened another store at 3984 Cottage Grove Ave.

Visitors.—T. Heaven, Benton Harbor, Mich.; E. Kalish, St. Louis, Mo.; Wm. Dykes, of Ed. Jensen's, New York; W. E. F. Weber, Sault Ste. Marie, Mich.

WASHINGTON NOTES.

Charles Scarborough, formerly with Gude Bros., but who has been spending the summer with his parents at Morrisville, Pa., is reported as having entered the employ of H. H. Battles, Philadelphia, Pa.

T. E. Miller, accompanied by his wife and son, has returned from an extended trip through Europe. Theodore Diedrich has returned from a visit to Germany. Among the other returning European travelers are Adolphus Gude and Fred H. Kramer, who leave England for home this week.

In addition to opening a new store at 3211 Mt. Pleasant street, N. W., the main store of J. A. Philipps, at Fourteenth and Harvard streets, N. W., is undergoing considerable improvement. The floor has been covered with tiling, a sanitary material similar to concrete, a new ice box is being built and a balcony is to be run around the store occupying all but the window space.

Mr. Mulford, of the Department of Agriculture, is at present busily engaged in the preparation of plans for the proposed rose garden at the Arlington farms, operated by the Department. In company with Robert A. Pyle and W. F. Gude, he last week inspected the site. Messrs. Gude and Pyle are especially enthusiastic over the project which for a number of years has been recommended by the S. A. F. and O. H. at its national conventions. While a start is to be made on a two-acre plat, it is believed that this will be materially increased as the garden grows in size and popularity. Upon the completion of the plans, Mr. Mulford will submit them to the several committees appointed by the American Rose Society and the S. A. F. and O. H.

PHILADELPHIA NOTES.

James Tasker, late with Dreer at Riverton, succeeds Maurice Fuld in the Michell establishment. Mr. Tasker is an expert plantsman and will divide his time between the store and the Michell nursery at Andalusia.

The Dreer Fall Exhibition of dahlias, hardy perennials, and greenhouse plants, is announced for Oct. 4th to 11th, at Riverton and Riverview. Everybody cordially invited on any or all of these days. The show will be unique of its kind and well worth going a long way to see.

The Leo Niessen Co. opened their Baltimore branch house, Sept. 30th, at 5 and 7 Center street. The location is central and the quarters ample. W. E. McKissick, an able and experienced man in the wholesale cut flower world, is manager. With two new factors in the situation, we look for "ginger" in the southern metropolis from now on. At all events, the Baltimoreans may rest assured of better service than they have ever had before.

A magnificent display of dahlias was put up by Gimbel's, one of the leading department stores, on Sept. 30, and attracted great crowds. Philip Frend, of Michell's, was in charge and surpassed himself in effective staging and genre. Some two hundred and fifty varieties were shown and plenty of space was given in the main arcade. The dahlia is certainly getting boosted here this fall. First it was Wanamaker's, then the P. H. S., then Michell's, now Gimbel's, and next week it will be Dreer's. That's going some for an old turnip of a flower like the dahlia.

Visitors: John D. Hopper, Richmond, Va.; R. W. B. Evans and wife, Wilkesbarre, Pa.; J. J. Fuchs, Pittsburgh, Pa.; B. F. Gane, Williamsport Floral Co.; John Beck, Milton, Pa.; P. Joseph Lynch, Heller Bros. Co., New Castle, Indiana.

New York.—Opportunities come once in a lifetime like that at McNiff's auction rooms on Tuesday last. A magnificent lot of tall kentias were put up and the few buyers who attended bought at their own prices. Kentias fifteen feet high, made-up plants in tubs, in splendid condition went to G. M. Stumpp and J. H. Troy for $40.00 and $45.00. Many valued them at from $125.00 to $150.00. Plants ranging from the above down to 6-ft. specimens, both single and made-up specimens, were sold at from $12.00 to $6.00, all in fine condition. J. I. D.

Gold Letters

1¼ inch	45c	per 100
1 "	40c	" "
¾ "	35c	" "

On all orders of 1000 initials or over we will include one compartment box free.

Mother of Pearl LETTERS

The latest for ribbon work. We made a hit right from the start! If you have not received our samples as yet, write immediately and get on the mailing list of the

AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

Some of Our
ROSE NOVELTIES
CECILLE BRUNNER OR SWEETHEART
IRISH FIRE FLAME MRS. A. WARD
SUNBURST
Roses that you will need this coming season. We can furnish these varieties now and will have others to offer you later.
The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA

To Cut Flower Growers and Retail Florists
IF YOU want to find a market for your product
want a regular or special supply of the product of the best growers
Consult the Advertisements on these Wholesale Flower Pages
The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago
RUSCUS AND RUSCUS WREATHS
Write for Samples and Prices
POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI September 15			CHICAGO September 24			BUFFALO September 24			PITTSBURG September 15		
Am. Beauty, Fancy and Special	20.00	to	30.00	30.00	to	40.00	20.00	to	25.00	15.00	to	20.00
" " Extra	8.00	to	10.00	20.00	to	30.00	10.00	to	15.00	10.00	to	20.00
" " No. 1	6.00	to	8.00	15.00	to	20.00	6.00	to	8.00	6.00	to	8.00
" " Lower Grades	4.00	to	6.00	8.00	to	12.00	3.00	to	5.00	2.00	to	4.00
Killarney, Extra	3.00	to	5.00	6.00	to	10.00	6.00	to	8.00	6.00	to	8.00
" Ordinary	1.00	to	3.00	3.00	to	5.00	2.00	to	4.00	4.00	to	5.00
Richmond, Hillingdon, Extra	3.00	to	5.00	6.00	to	10.00	6.00	to	8.00	6.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	5.00	3.00	to	5.00	.....	to	4.00
Maryland, Ward, Taft, Carnot, Extra	3.00	to	5.00	6.00	to	10.00	5.00	to	7.00	6.00	to	8.00
" " " " Ordinary	1.00	to	3.00	3.00	to	5.00	3.00	to	4.00	.....	to	4.00
Carnations, Fancy Grade	.....	to	1.50	.....	to	3.00	2.00	to	2.50	.....	to	2.00
" Ordinary	....	to	1.00	2.00	to	3.00	1.00	to	1.50	.....	to	1.50
Cattleyas	.....	to	.....	50.00	to	75.00	50.00	to	60.00	50.00	to	75.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	15.00	8.00	to	10.00	12.00	to	15.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	.....	to	4.00	3.00	to	4.00
Chrysanthemums	...	to	.....	12.00	to	25.00	10.00	to	20.00	.....	to	.....
Gladioli	1.00	to	2.00	.....	to	.....	.....	to	.....	1.00	to	4.00
Asters	.50	to	2.00	.....	to	.....	1.00	to	2.00	1.00	to	3.00
Daises	.....	to	.50	1.00	to	1.25	.....	to	.....	.....	to	1.50
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.....	to	1.00	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	.....	to	15.00
Asparagus Plumous, Strings (100)	25.00	to	35.00	25.00	to	50.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	50.00	35.00	to	50.00	40.00	to	50.00

BUY
BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

ATLANTA
COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly mention HORTICULTURE.

Flower Market Reports

BOSTON Trade has been looking up a little bit, but at present writing has taken a lull and with the increasing receipts of carnations, chrysanthemums, cattleyas and most roses there is a tendency for stock to lag somewhat in wholesalers' hands. Quality generally is very poor and will continue to improve now. No great advance in prices of anything is looked for during October and growers and dealers would be well pleased if they could only be assured that there would be no slump as soon as the chrysanthemums begin their main incursion. The new crop carnations look pretty nice and some of the newer roses are making a good record for so early a date.

BUFFALO Since the 1st of September, there has been quiet and dull days, and as the days pass into autumn trade has taken a little life and is gradually becoming better. Autumn weddings have consumed a good portion of lily of the valley, white roses, orchids and other bridal flowers and there has been a fair supply of everything along the line. Asters continue to come in, though the end is near. A few gladioli are seen now and then, also other outdoor material. Dahlias hold the centre of the market and so far have taken well, the single varieties especially. The rose crop is on and it must be said that such a fine lot of roses at this time of the season has very seldom been seen. Choice Killarney, in red, white, pink, and double, also Queen, Perle, Hillingdon, Ward and the beautiful Sunburst, together with Bonsilene, Safrano, Radiance, Bride, Bridesmaid and Madison, furnish a good selection and are offered in many different grades to fill any order. Beauties, too, are good and there are some fine chrysanthemums in Golden Glow and Smith's Advance. Carnations are coming on better each day. Trade is gradually working its way toward the busy season.

CHICAGO A complete absence of asters makes most of the wholesale houses appear rather bare, for chrysanthemums are not yet plentiful enough to make up for the departure of asters. All told, it has been a good aster season and a profitable one for all concerned. Golden Glow predominates in chrysanthemums, but there are not enough now to fill the demand, and of white there are still less, a very few Smith's Advance and October Frost being seen. American Beauties are inclined to be scarce in the short and medium lengths where the greatest demand is. All other roses are in fair supply with demand increasing as out-of-door flowers are disappearing. There is a good demand for lily of the valley and the quality is first-class. Carnation season may be said to be with us again. Stock is now of good average size and some few carnations have reached "fancy" stage. There are plenty of carnations but not more than can be used to advantage. Some flowers have been received from the south, including blue gentians, which arrived in fine condition. Very few dahlias as compared to past years have been in the market this season. Green is to be had in all kinds. Smilax still continues scarce.

NEW YORK As the season runs its course the flowers which have held the centre of the stage for weeks past are rapidly making their exit and the stock characteristic of the fall begins.

CATTLEYAS

Wonderfully choice flowers, $6.00 per doz.; $40.00 per 100
MIXED ORCHIDS in variety, $5 and $10 boxes
VALLEY—Special, $4 per 100, Extra $3 per 100

P M QUALITY



RADIANCE ROSES
Per Hundred

Fancies	Extras	Firsts	Seconds
$8.00	$6.00	$5.00	$3.00

DAHLIAS — The typical early fall flower. In original boxes direct from the growers—a very successful and satisfactory way for shipments to go. $2.00 to $3.00 per 100. Some of the choicer novelties at $4.00 per 100.

HEADQUARTERS FOR GREENS
Wild Smilax, $6.00 per case.
Bronze Galax, $2.00 per 1000.
Green Galax, $1.00 per 1000; $7.50 per 10,000.
Green Leucothoe, new crop, $1.00 per 100; $7.50 per 1000.
Green Sheet Moss, $3.50 per bag.
Asparagus strings, 50c. each.
Asparagus and Sprengeri bunches, 50c. each.
Adiantum, $1.00 per 100.
Smilax, 20c. per string. Cut Hemlock, $2.50 per bundle.
Hardy Dagger Ferns, best quality, large fronds, $1.50 per 1000.
Sphagnum Moss, burlapped, 10-bbl. bales, each $3.75; 5-bale lots, $3.50 each; 10-bale lots, $3.25 each.

RIBBON AND SUPPLIES—Many new patterns in exclusive designs.

Our new Catalogue of Ribbons and Supplies has now been mailed. If you did not receive your copy advise us and we will send it to you at once.

Business Hours from 7.30 a.m. to 6.00 p.m.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

NEW YORK: 117 West 28th Street **BALTIMORE: Franklin and St. Paul Streets**
PHILADELPHIA: 1608-1620 Ludlow Street **WASHINGTON: 1216 H Street, N. W.**

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON October 2			ST. LOUIS September 29			PHILA September 2		
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	.....	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	8.00	4.00	to	8.00
" Ordinary	1.00	to	3.00	2.00	to	4.00	2.00	to	3.00
Richmond, Hillingdon, Extra	3.00	to	8.00	5.00	to	8.00	4.00	to	8.00
" " Ordinary	1.00	to	3.00	2.00	to	4.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	4.00	to	8.00	6.00	to	8.00	4.00	to	8.00
" " " " Ordinary	1.00	to	3.00	4.00	to	5.00	1.00	to	3.00
Carnations, Fancy Grade	2.00	to	3.00	1.00	to	2.00	....	to	.....
" Ordinary	1.00	to	1.50	.50	to	.75	1.00	to	2.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	.....	to	40.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.00	10.00	to	12.00
Lily of the Valley	2.00	to	4.00	3.00	to	2.00	2.00	to	4.00
Chrysanthemums	8.00	to	12.00	.....	to	.....	.....	to	.....
Gladioli	2.00	to	3.00	1.00	to	2.00	.....	to	.....
Asters	.....	to	1.00	1.00	to	3.00	.....	to	.....
Daises	.....	to	1.00	.....	to	.....	.....	to	.....
Gardenias	8.00	to	12.00	.....	to	.....	12.00	to	15.00
Adiantum	1.00	to	1.25	1.00	to	1.25	1.00	to	1.50
Smilax	10.00	to	15.00	15.00	to	18.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	15.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad Sq 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 1468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 27 1913	First Half of Week beginning Sept. 29 1913
Cattleyas	30.00 to 50.00	25.00 to 40.00
Lilies, Longiflorum	5.00 to 8.00	4.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	12.00 to 20.00	8.00 to 20.00
Asters	.50 to 1.00	.75 to 1.00
Daises	..... to .50	..... to .50
Snapdragon	... to	..... to .....
Gardenias	6.00 to 9.00	6.00 to 12.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	6.00 to 8.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V. Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

E.G.HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 477)

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Sept. 27 1913	First Half of Week beginning Sept. 29 1913
American Beauty, Fancy and Special	12.00 to 25.00	20.00 to 35.00
" " Extra	8.00 to 10.00	10.00 to 15.00
" " No. 1	5.00 to 6.00	6.00 to 8.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 5.00	3.00 to 6.00
" Ordinary	1.00 to 2.00	1.00 to 2.00
Richmond, Hillingdon, Extra	3.00 to 5.00	3.00 to 6.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 10.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.00	1.50 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

PHILADELPHIA

Market conditions continued to improve during the past week, the demand being better and, with an accompanying falling off in receipts, prices hardened considerably. What was still better than the hardening was the good clean-up. Very little good stock of any kind went to waste or got sacrificed. Among roses perhaps the most plentiful was American Beauty. These were of very good quality also and were in good demand. White roses were scarce and not enough to go around. The new red, Mrs. Charles Russell, is showing up well. There seems no doubt now as to this variety's making good in this locality, both from the grower's and the retailer's standpoint. Plenty of dahlias of excellent quality. The demand is good. October Frost, the good old standby, and Montmort made their bow during the week in the chrysanthemum line. In white, Smith's Advance still holds the fort. The cattleya demand has improved a little, but the market is still below standard as to prices. Carnations are scarce, not nearly enough of the better kind to go around and prices have gone up on these. Many orders for good flowers had to be turned down. There are still a few asters coming in, but the flush of this crop is over. They are pretty good quality. Any amount of good cosmos, pink, red and white. Autumn foliage and eulalia plumes are in and these are in demand. They harmonize very well with subjects like the tritoma, which is around in good form and fairly plentiful. The greens market has taken on some life and seems to be on the way to normally lively conditions.

PROVIDENCE

The demand for indoor flowers strengthened considerable during the past week, and while the quantity of the glass-grown blooms has been equal to the call of the trade, the quality has been very poor, as a rule. Outdoor flowers are practically extinct, frosts in many places having depleted the few blooms that were left unprotected. Asters are nearly all in, a few being found in some of the retail stores. Asters this season have been below the average in quality as compared with previous years. No real cause can be given for this aside from the unfavorable growing conditions. Violets have just begun to come in, the quality being fair for the beginning of the season. Roses are showing some improvement in quality. Carnations are poor and very scarce and the price is stiff considering the quality. Some very good white and yellow chrysanthemums are being offered at a fair price. This is the second week for this flower and the stock appears to be very good.

S. A. G.

ST. LOUIS

The market is not in very good condition. A lot of stock is coming in but among this there is a great scarcity of fancy stock, especially in carnations. In roses, however, we find a good quality. The sensational feature last week was the cut in prices of fancy ferns, two of the markets selling at $1 per 1000. There is a big lot of outdoor stock still coming. The demand is not so good on these of late. The trade is looking for chrysanthemums daily, but only a few Golden Glows are in. The weather is too warm for violets. Lilies and lily of the valley have had a splendid call the last week.

WASHINGTON

Business is beginning to pick up well now that the cold weather is coming and stock is in much better condition. Carnations are coming in with longer stems and the blooms and foliage of the roses are much better. American Beauty roses are good and are bringing from $1.50 to $4 per dozen, while the price on other roses has increased somewhat, due to better quality. Orchids are slightly more plentiful with the exception of white ones. Snapdragon is beginning to come in but there is little demand for it. The call for violets, the first of which have just been seen, is quite heavy although the stock is not good. Gardenias have shortened up considerably in supply and the local houses are unable to fill all demands. Due to the many weddings, the demand is heavy on lily of the valley and there is just about enough of this to meet all calls.

Boston, Mass. — William Sim has leased stalls Nos. 1 to 7 inclusive at the Boston Flower Exchange and put his son, Henry Allen, in charge as salesman. The young man has also the sale of Peter Fisher's carnations. Mr. Sim has been picking Princess of Wales violets for two weeks now and they are fine for so early in the season.

ATTENTION If you wish **Dark Green** and **Fresh Cut EVERGREENS**, finest quality Selected Stock. Laurel Branches, 2x2x4 ft. case, $2.50 per case; Pine Plumes, $2.75 per case; Laurel Stems large bag, $1.00. Try our Cedar Boughs, only $2.25 per case. Once used always used. Holly Wreaths, well berried. Holly by the case and bag in season. Order in advance. Address **LOCK BOX 5. Watertown, N. J.**

Mention HORTICULTURE when writing.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

6000 Asparagus Sprengeri, 4-in. pots, $6.00 per 100; $50.00 per 1000.
Primula Malacoides, strong 3-in., $4.00 per 100. Out of soil, $3.00 per 100.
Cash with order.
E. P. HOSTETTER, Manheim, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

"Tel-Wood," care of Horticulture.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Field grown Carnation Plants Enchantress, medium size, $4.00 per 100. Cash.—M. J. SCHAAF, Dansville, N. Y.

To close out. Brooklyn Field Plants: First size, $4.00; smaller, $3.00. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

Carnations For Sale. 200 Beacon; 350 White Enchantress; 1500 Harlowarden; fine field grown plants; $5.00 per 100. Send cash with order. R. W. UNGER, Florist, Oxford, Mich.

FIELD GROWN CARNATION PLANTS. 4,000 Enchantress, 3,000 Queens, 1,500 Sangamo; $40.00 per 1000. This is a bargain for some one. 15 and 25 shoots on each plant. Free from all diseases. Cash with order, please. F. B. ABRAMS, Blue Point, L. I., N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash. J. W. MILLER, Shiremanstown, Pa.

Cinerarias, dwarf, large flowered, $1.50 per 100, cash. Post paid. CENTER STREET GREENHOUSES, Chas. Rathjen, Prop., Janesville, Wis.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 459

FERTILIZERS—Continued

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
Gold Letters—Mother of Pearl Letters.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FRUIT TREES

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For Field, Garden or Orchard House.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

We have in the field large stocks of the gladioli mentioned below, on which we will be glad to quote prices of sizes from ⅜ in. to 2 in., fall or spring delivery: B. Hulot, Europa, Faust, Fred Wigman, Halley, Glory, Lily Lehmann, Liebesfeuer, Niagara, Princepine, Princeps, Panama, Peace, Sulphur King, Willy Wigman, Alice Carey, America, Augusta, F. King, Mme. Monmeret, Rosella, Scarsdale, Taconic, Golden Queen, Rochester, La Luna, etc. First come, first served. Last spring we were compelled to refuse late orders. Cut flowers, $3.00 per 100 f. o. b.
RALPH E. HUNTINGTON, Painesville, O.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIAL PLANTS

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Hammond's Paint and Slug Shot Works, Beacon, N. Y.
Hammond's Grape Dust.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Cold Storage.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MUSHROOM SPAWN

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Olmsted Bros., Brookline, Mass.
Wanted 100 American Ash Trees
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
For page see List of Advertisers.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PEONIES 4c. to 8c. PER STEM.
We have a surplus of Peonies and we are determined to move them. Choice sorts such as Delicatissima, Festiva Maxima, Floral Treasure, Livingstone, Richardson's Dorchester, etc., at 8c. per stem. Standard sorts at 6c. Terry's seedlings, mixed single and double, 4c. Not less than ten stems of a kind at these prices. We can furnish any size clumps wanted. We grow all our own Peonies and guarantee them true to name. Write for complete list of over 300 varieties. HENRY FIELD SEED CO., Shenandoah, Iowa.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

Anton Schultheis, 316 19th St., College Point, L. I., N. Y.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

Lancaster County Nurseries,
R. F. D. No. 7, Lancaster, Pa.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadlephia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY, West Grove, Penna.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

For List of Advertisers See Page 459

SEEDS—Continued

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

PHOENIX ROEBELENII.
We expect from our collector a fresh harvest. Price on application.
SANDER, BRUGES, BELGIUM,
and 258 Broadway, New York, N. Y.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co.,
Lexington, Mass.
For page see List of Advertisers.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

VERBENAS.

Lemon Verbena, rooted cuttings, $1.00 per 100, cash. Post paid. CENTER STREET GREENHOUSES, Chas. Rathjen, Prop., Janesville, Wis.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Variegata, rooted cuttings, $1.00 per 100, cash. Post paid. CENTER STREET GREENHOUSES, Chas. Rathjen, Prop., Janesville, Wis.

VIOLETS

Violets from field—Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CATTLEYAS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANTHEMUMS, AZALEAS, POINSETTIAS AND HOLIDAY STOCK FOR GROWING ON.
W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

CLEAN BOXWOOD.
McCallum Co., Pittsburg, Pa.
For page see List of Advertisers.

CORPORATION NOTICE.
Knight & Struck Co., 1 Madison Ave., New York.
For page see List of Advertisers.

FLORISTS' GREEN GOODS.
Lock Box 5, Waretown, N. J.
For page see List of Advertisers.

GIANT FLOWERING SWEET PEA BLANCHE FERRY.
Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

HORTICULTURAL IMPORTERS AND EXPORTERS.
Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

NIKOTEEN FOR SPRAYING—APHIS PUNK FOR FUMIGATING.
Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

PLANTS OF CELEBRITY: FERNS, LORRAINES, ETC.
A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

SECOND ANNUAL FLOWER SHOW.
Ohio Horticultural Society and Cleveland Florists' Club, John Boddy, chairman, Cleveland, Ohio.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

Obituary

Mrs. Henry Trochsler.

Mrs. Henry Trochsler, of 3524 K street, Philadelphia, Pa., who conducted a retail flower store, died of apoplexy, September 17th.

William Elias.

William Elias, superintendent of the Walter H. Phelps estate, Bernardsville, N. J., died at the quarantine station in New York harbor, September 13th, on his return from England. He was 61 years of age. He is survived by his wife and two daughters.

Mrs. Otto Goerisch.

Otto Goerisch, a favorite in florists' circles, and employed by the children motherless. When Mr. Goer- A. L. Randall Co., Chicago, has the deepest sympathy of the trade in the loss of his wife, which leaves two little isch returned from work, Sept. 23, he found her dead, apparently having died of heart failure.

Justus Geist.

Justus Geist, an old-time florist, died on Thursday, September 25, at the hospital in Melrose, Mass., of pneumonia, at the age of 69 years. Mr. Geist was one of the large growers of



THE LATE GEORGE MCWILLIAM.
Obituary note in last week's issue.

Bonsilene roses away back in the days when the "Boston rose" was the leading flower in the florist trade of this country. Of late he has been in failing health.

Wm. Lorman, Sr.

Wm. Lorman, well-known to the trade and for many years with the A. L. Randall Co., Chicago, lost his father on the 24th. Wm. Lorman, Sr., like his son, was very fond of bowling and after an evening spent in this way was talking with friends on his way home, when a bullet, fired by a policeman at a burglar, struck an electric light pole, then glanced, hitting and killing Mr. Lorman.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia,

HELP WANTED

GARDENER OR FOREMAN on landscape work, grading and general construction; lawn, road, formal gardens, transplanting trees, large or small, pruning, tree surgery; practical and reliable, with executive ability. "POMONA," care of HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED—By competent gardener and greenhouse man; wishes permanent position on private or commercial place; 25 years' experience growing flowers, fruits, vegetables and general greenhouse work; American, 45, strictly temperate; best references from former employers regarding character and ability; married, one child, 2 years. Address GARDENER, Box 115, Uncasville, Conn.

FOR SALE

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 738 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—One large size Morehead [illegible]; good as new; cost $225, will sell for $100. F. FALLON, Roanoke, Va.

INCORPORATED.

Omaha, Neb.—Menary Nursery Co., capital stock, $25,000. Incorporators, G. H. Keyes, R. C., F. W., and A. O. Menary.

Parkersburg, W. Va.—J. W. Dudley Sons Co., capital stock, $50,000. Incorporators, Brainard J., Albert G., Elizabeth and Louise Dudley, Hattie J. Coffman, Clara Woods, Emma G. Heaton, Helen O'Neil and Grace M. Shields.

New York City, N. Y.—Chas. Schwake & Co., horticultural products; capital, $25,000. Incorporators: Chas. Schwake, New York City; Wm. F. O'Connor, Long Island City; Wm. B. Gugel, same.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.

Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.
For green, black, white fly, red spider, thrips, mealy bug and soft scale.
$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and bench fungi Does not stain but cleanses the foliage.
75c. per quart—$2.00 per gallon.

VERMINE

For sterilizing soil and all soil vermin.
$1.00 per quart—$3.00 per gallon.

SCALINE

For scale and all sap sucking insects on trees and nursery stock. Can be used in growing season as safely as in dormant season.
75c. per quart—$1.50 per gallon—10 gallons $10.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

$1.50 per quart—$4.50 per gallon.

All our products are used diluted with water at various strengths, as directed on cans.

FOR SALE BY SEEDSMEN.

Let us quote you our prices to commercial growers in quantity.

Aphine Manufacturing Co., Madison, N. J.
Manufacturers of Agricultural Chemicals
M. C. EBEL, General Manager.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.
273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**
APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP"

BRAND

Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Jobbers. Write for prices

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md

Directions on every package

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y

CATALOGUES RECEIVED.

Stuart Low & Co., Bush Hill Park, Middlesex, Eng.—Wholesale Catalogue of Plants. Some fine and desirable novelties are here listed as well as standard varieties. Tender and hardy material are included and the list of fruit trees, trained, pot-grown, etc., will be found very interesting.

S. S. Pennock-Meehan Co., Philadelphia, New York and Washington.—This catalogue describing the various specialties offered by this enterprising house is distinctly more than a catalogue. It has a literary style all its own and in make-up, typographical excellence, binding, etc., is really a superb production. Cut Flowers, Ribbons, Florists' General Supplies, Plant Novelties, etc., are all presented in attractive dress in their several departments and the book will fill a very useful place in the workroom and office of every up-to-date florist.

When writing to advertisers kindly mention HORTICULTURE.

GREENHOUSES BUILDING OR CONTEMPLATED.

Oneco, Fla.—Reasoner Bros., one house.

Cairo, Ill.—H. H. Cade, range of houses.

Hudson, Mich.—R. J. Peterson, two houses.

Chicago, Ill.—F. O. Franzen, Moninger conservatory 20 x 50.

Washington, N. J.—Alonzo J. Bryan, two houses each 35 x 140.

St. Paul, Minn.—Park Department, nine houses 26 x 100 each.

North Wales, Pa.—Fred Fould, one house. John Holt, one house.

South Euclid, Ohio—Y. L. Severance, three Hitchings' houses.

Pittsford, N. Y.—Chas. B. Emmons, Lord & Burnham house 20 x 60.

Poughkeepsie, N. Y.—Joseph Jones' Sons, W. Main street, one house.

Indianapolis, Ind.—Roepke & Son, E. Washington street, range of houses.

Brooklyn, N. Y.—Wm. F. Kenny Co., Marion avenue and Oliver street, one house.

PATENTS GRANTED.

1,073,646. Orchard Spraying Machine. Fred C. Thompson, Granger, Wash.

1,073,702. Machine for Transplanting Plants. Richard L. Owens, Minneapolis, Minn.

1,073,852. Tree Sprayer. Forest G. Hayes, Sharon, Pa.

1,073,780. Weed Destroying Machine. John R. Roe, Rupert, Idaho.

NEWS NOTES.

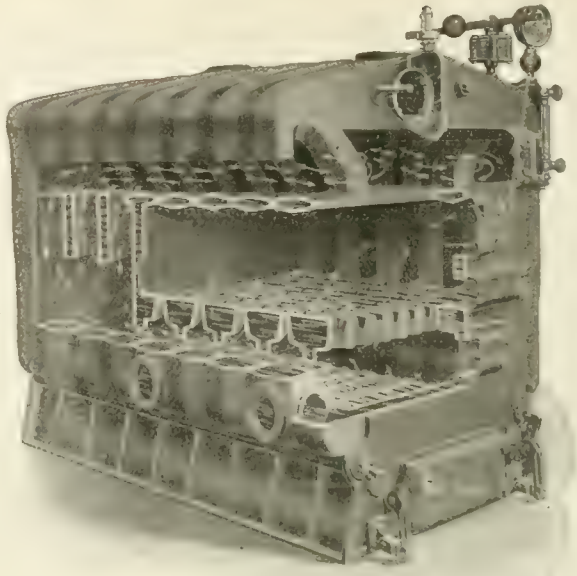
Alexandria, Ind.—M. E. Goode has purchased the greenhouse of H. A. Maxiner and will take possession, October 1st.

Galesburg, Ill.—The heating plant of H. F. Drury's greenhouses was destroyed by fire, September 15th, causing a damage of $1,000.

The Nicotine Manufacturing Co., of St. Louis, Mo., makes its welcome reappearance in our advertising columns in this issue. Inability to care for any increased business was the reason for their discontinuance, but they have now completed and moved into a new factory with four times the former floor space and quadrupled machinery and are now in a position to ship promptly. On August 18 they incorporated under the laws of Missouri.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave and Dwight Street
JERSEY CITY, N. J.

The King "Ideal"



Burns Soft Coal

"King Ideal" Boiler
FOR
GREENHOUSES

A square Sectional Cast Iron Boiler designed especially for burning soft coal, so that it is

SMOKELESS

The King Ideal is a very practical heater which costs a trifle more than the old style rocking grate hard coal boiler but it

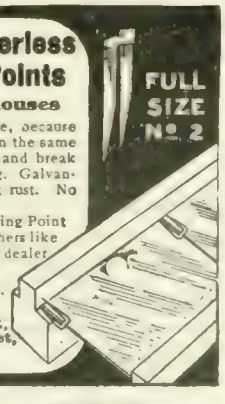
Saves 1-3 of the Season's Fuel Bill

Write for Bulletin No. 41 and find out why the King Ideal Boiler like a King Greenhouse is the most profitable investment you can make.

KING CONSTRUCTION CO.
28 King's Road. NORTH TONAWANDA, N. Y.
"ALL THE SUNLIGHT ALL DAY HOUSES."

In Writing Advertisers Kindly Mention HORTICULTURE.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us
1000, 75c postpaid. Samples free
HENRY A. DREER,
714 Chestnut Street, Philadelphia.

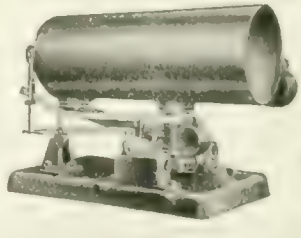


MASTICA
FOR Greenhouse Glass
USE IT NOW
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms
Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO
Richmond, Ind.



CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.

PATENTS

Trademarks and Copyrights

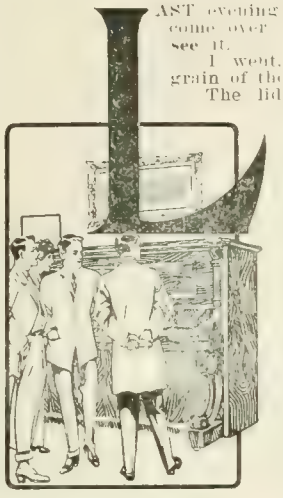
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N.J.**

Buying A Piano And A Greenhouse

Another True Story With A Moral.



LAST evening one of our fellow town's folks phoned me to come over and "see their new piano." Not **hear** it, but **see** it.

I went. A more gorgeous case I never saw. The grain of the wood stood out like a map.

The lid and music rack was a patented slidable – downable upable affair that all the members of the family each in turn showed me how it worked. It also had four pedals. This was considered a truly great advantage, I being informed that most self-respecting pianos are having only two. The keys had a particularly peculiar slant. Just **why** they slanted was not important.

Nothing had been said of its musical tone—so I ran my finger up and down the keys and found the tone to be just what you and I would have expected.

It made musical sounds not tones. As a piece of cabinet work and sample of jim crack skill, that piano was a wonder. As a musical instrument it was a flat failure.

On my way home, I couldn't help thinking how some growers bought their boilers and greenhouses just like those folks bought their piano.

They allow themselves to put too much importance on the jim-crack unimportant things and too little on the vital ones.

What do you care whether a boiler has a certain fandangle grate or not—what you want to know is: Will that boiler heat your house economically.

What do you care about this or that particular unimportant fitting that some concerns talk so loudly about using in their greenhouse construction?

What you want to know is: Will the construction itself give you the best growing house possible and last you longest possible with least possible repairs.

First be sure you are sure of securing the vitally important things. It's time enough then, to consider the jim-cracks.

Our construction is weak on jim-cracks.

But it's strong on the strong points that go to make your investment an enduring paying one.

Put it down in your note book that pianos, boilers and greenhouses require great care in their buying.

Send for our Commercial Greenhouse Catalog. "We go anywhere for business."

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

In Writing Advertisers Kindly Mention HORTICULTURE.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from a box to **a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Lean Horse for Long Race



THE saying: "A Lean Horse for a Long Race," is true as it is old.

The U-Bar is **the leanest** of all the greenhouse constructions.

Leanest, because it's made of the strongest material; with the least material needed to make it strong.

The U-Bar roof bar and rafter, are one.

Every roof bar is a steel rafter.

Every rafter is a steel and cypress roof bar.

Not-with-standing this rafter and roof bar combination —the U-Bars are no larger than the usual cypress bars used in other constructions.

Like the lean horse, **the U-Bar frame is all muscle.**

Not only is such a house, when built such a way, decidedly more graceful and architecturally attractive; but it's unequaled for productiveness.

The highest possible endorsement of the U-Bar construction, is that other concerns are trying in every way to make their houses look like the U-Bar houses.

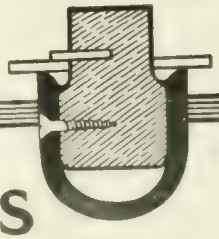
So don't think that if a house has a curved eave, it's a U-Bar house.

If it's not built with the U-Bars, it's not a U-Bar curved eave house.

Send for catalog. Or send for us. Or both.



Erected for J. A. Spoor, Pittsfield, Mass. **J. W. Martin is the Gardener.**



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE: 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XVIII. OCTOBER 11, 1913 No. 15



Photo. reproduced by permission of Gardeners' Chronicle, London, Eng

TUBEROUS-ROOTED BEGONIA FLORENCE NIGHTINGALE

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

A Cordial Invitation

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

THOS. F. GALVIN, Inc.

Established 1847

Fifth Ave., at 46th Street, New York

THREE STORES IN BOSTON

GERANIUMS

We have 300,000 in 3-inch pots ready for immediate shipment, at $3.00 per 100, $25.00 per 1000, in the best collection of Standard Varieties, Double and Single, in the country.

Will have 200,000 in 2-inch pots ready October 1st, at $2.00 per 100, $18.50 per 1000, and an immense stock to follow.

LET US BOOK YOUR ORDER FOR FUTURE SHIPMENT

We are booking orders for Dahlias and Cannas, for the coming Fall and Winter delivery. *Send for list if interested.*

R. VINCENT, JR. & SONS CO. . . White Marsh, Maryland

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 $50.00 per 1000

Can Ship as soon as frost comes to harden them up—about October 12

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

LIST OF ADVERTISERS

Page
Advance Co.....523
Albany Cut Flower Ex....514
Allen, J. K.....514
Am. Importing Co. 511
Anderson, S. A..509
Aphine Mfg. Co.521
Aschmann, G....503
Atlanta Florist Co. 512
Ayres Co., S. Bryson 505
Badgley, Reidel & Meyer.....514
Balsley, Harry..523
Barrows & Son..492
Bayersdorfer, H. & Co.....511
Bay State Nurseries 501
Bloomingdale's, 508
Bobbink & Atkins 501
Boddington, A. T. 503
Bolgiano & Son, J. 505
Boston Florist Letter Co.....512
Breck, J. & Son.505
Breck - Robinson Nurseries 500
Breitmeyer's, J. Sons 508
Bryan, Alonzo J.500
Burnett Bros...505
Burpee, W. A. & Co. 505
California Florist 509
California Seed Growers' Asso.505
Chicago Carnation Co.....512

Page
Cooke, Geo. H..510
Childs, John Lewis 492-502
Clarke's, D. Sons 508
Clark, Everett B. Seed Co.....505
Conard & Jones..500
Conine, F. E. Nursery Co...500
Cowee, W. J....514
Craig, Robt. Co..502
Dards 508
Davenport, A. M.502
Dawson, H. S..492
Detroit Flower Pot Co.....523
Dorner & Sons Co. 492
Dreer, H. A. 501-522-523
Dunlop, John H.509
Dysart, R. J....515
Eastern Nurseries 492
Edgar, W.W. Co.502
Edwards Folding Box Co.....512
Elliott's, W.Sons.505
Eppstein, Julius.509
Ernest, W. H...523
Esler, J. G. ...522
Eyres 508
Fairfield Landscape & Nurseries Co. ...500
Farquhar, R. & J. & Co. 502
Ford, W. P. 514
Forrest Frank H. 509
Fottler Fiske Rawson Co....505
Fox Hall Farm..502
Froment, H. E..514

Page
Framingham Nurseries 501
Franklin Davis Nursery Co...501
Freeman Orchid Co. 503
Galvin, Thos. F. 490-509
Gasser, J. M. Co.509
Goodsell, P. H..501
Grey, T. J. Co..504
Gude Bros. Co..509
Hail Association.522
Hall & Robinson.509
Hart, Geo. B....515
Heacock, Jos....502
Heinecken, Otto.505
Henderson, A...503
Hess & Swoboda.508
Hews, A. H. & Co. 523
Hill, E. G. Co..515
Holland Nurseries 500
Hilfinger Bros...523
Holm & Olson..508
Hudson Carbon Co. 521
Industry Moss & Peat Co.....503
Interstate Tobacco Co.....521
Jacobs & Sons, S. 523
Johnson, J. Oliver 505
Johnston Bros..509
Jones, Robert Ross 523
Kasting, W. F. Co. 515
Kervan Co.....514
Keller, J. B. Sons 508
Keller, J. M 492

Page
Kelway & Son..504
King Construction Co.....522
Kramer, F. H...509
Kroeschell Bros.523
Kuebler, W. H..514
Lager & Hurrell.503
Lemon Oil Co..521
Leonard Seed Co.505
Leuthy, A. & Co.492
Loechner & Co..503
Lord & Burnham 524
Low & Co., Stuart 503
MacMulkin, E...509
May & Co., L. L.509
McConnell, Alex.508
McCarthy, N. F. Co. 512
McCray Refrigerator Co.....520
McHutchison & Co. 492
McKenna & Sons, P. 509
McKenzie, John.502
McManus, Jas...514
Michell's Seed House 504
Michigan Cut Flower Ex....512
Millang, Chas...514
Montreal Floral Exchange ...514
Moore, Hentz & Nash 514
Murray, Samuel.508
National Nurseryman 501
Nicotine Mfg. Co.521
Niessen, Leo Co.512
N. Y. Stable Manure Co.....521
Oechslin, Frank.500

Page
Ouwerkerk, P...500
Park Floral Co..508
Palisades Nurseries 506-507
Palmer, W. J. & Son 508
Parshelsky Bros.523
Penn the Florist.509
Pennock - Meehan Co. 513
Pierce Co., F. O.523
Pierson, A. N..492
Pierson, F.R.Co.509
Plant Food Co., 20th Century..521
Poehlmann Bros. Co. 512
Pollworth, C. C.508
Pulverized Manure Co.....521
Quaker City Machine Co.....523
Randall's Flower Shop 509
Reed & Keller..514
Reinberg, Peter.512
Rice, M. Co.....509
Robinson Co., H. M. 514
Roehrs, J. Co...503
Roland, Thomas.492
Rolker, A. & Sons 492-523
Rosery, The.....508
Sander & Son..503
Scott, John 502
Sebring, Max....509
Schwake, Chas. & Co.....505
Searles, O. F...502
Sheridan, W. F.514
Sharp, Partridge & Co. 523
Siebrecht, Geo.C.514

Page
Siggers & Siggers 522
Sim, Wm.....491
Skidelsky, S. S. & Co.....505
Smith, P. J.....514
Smith & Co., E. D. 501
Smith, W.&T.Co.501
Smyth, Wm. J..508
Sprague, J. H..503
Stearns, A. T. Lumber Co....523
Stumpp, Geo. M.508
Syracuse Pottery Co. 523
Totty, Chas. H..492
Thorburn, J. M. & Co.....505
Traendly & Schenck 514
Valentine, J. A..508
Van Assche, F..523
Vincent, R. Jr., & Sons Co....491
Wants, For Sale..520
Ward, R. M. & Co. 492
Weber, F. C....509
Weeber & Don..505
Welch Bros.....512
Whittier & Co., W. B.....501
Wilson, Robt. G.508
Wilson Seed Co., J. J. 505
Wood Bros.....492
Woodrow & Marketos 514
Young, John 514
Young & Nugent.508
Zangen, O. V....504
Zinn, J. A.....509
Zvolanek, Ant. C.505

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 516, 517, 518, 519

IF YOU BUY

One Hundred or One Million

LILY BULBS

BUY THE BEST

Horseshoe Brand Giganteum Is It

6/8	$16.00 per case of 400
7/9	7.50 per case of 100
7/9	18.00 per case of 300
8/10	10.00 per case of 100
8/10	23.00 per case of 250

Larger Sizes Sold.



Not How Cheap But How Good

RALPH M. WARD & CO.

The Lily House

71 Murray Street, NEW YORK

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

J. M. KELLER, Inc.

GROWERS

DECORATIVE PLANTS

OF HIGH QUALITY

Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

CHILDS' GLADIOLI

are noted the world over for

SUPERIOR MERIT

John Lewis Childs

FLOWERFIELD, L. I., N. Y.

RAFFIA

Natural—Four Standard Grades.

Colored –Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale, Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

NEW YORK BOTANICAL GARDEN

Chrysanthemums

Keep the stock clean of all by-growth, lest the flow of sap be diverted to nourish this useless growth. All the energies of the plant should be led to where they are needed for the development of perfect buds and foliage. Feeding should not be kept up too long. I think no flower, when it shows color well, should receive any more liquid nourishment and in the case of red varieties feeding should stop even before the buds show color, as these kinds are very much more addicted to damping than other varieties. Let well enough alone as the last watering with liquid may be the means of spoiling the flower. The times for saturating the bench are gone and the plants, as they finish, need less and less water. Only water on bright days and then in the early morning so that all superfluous water gets dried up before night. A heavy, moist atmosphere at night is to be avoided above all things, as the moisture will condense on the petals and cause them to damp. Keep the plants clean of greenfly by light fumigation or spraying with some kind of nicotine preparation.

Campanulas

It is now time to lift these valuable forcing biennials. Lifted now, your plants will have time to make new roots before the hard weather sets in. In potting them use whatever size that will hold the roots nicely. Use a rich compost of fibrous loam three parts, well decayed cow manure one part. Work the compost firmly around the plants. Give them a good soaking of water and place them outdoors until frost arrives of sufficient severity to threaten the breaking of pots. When hard weather sets in you will have to give them some protection. These campanulas can stay outside in a frame until they are wanted for forcing which is generally in January some time. You cannot get them to flower before the middle of April so do not start them too early.

Lilies for Christmas

The earliest Bermuda lilies should now be removed from the coldframe to a warm house. Some of them will have formed sufficient roots by this time. No actual forcing is necessary. If given an average temperature of 60 degrees they should be in plenty of time for Christmas. The grower can employ any degree from 55 to 75 degrees at night as he may see fit in order to get his lilies in at the right moment. When coming into flower they can be fed with some liquid manure which will improve their quality very much. Fumigating frequently, say about once a week, will keep the plants free of the pest. When the plants are from 15 to 20 inches high they ought to be staked and kept neatly, but not tightly tied. Water carefully so as not to sour the compost. Let them show signs of dryness first, and then give enough water to soak the whole ball through. Frequent and slight waterings are dangerous. Syringe regularly.

Planting Phlox

For a planting of phlox make the beds in the fall when the soil is comparatively dry and pulverizes in the digging. It pays to trench the ground well for this perennial, and have plenty of well decomposed manure thoroughly incorporated with the soil. Then dig out the required depth at one end, about two feet wide, and place on one side. This is to give room for trenching. Loosen the soil at the bottom. Then put a layer of fresh manure about a foot wide in the bottom up against the end. Continue digging, shoveling the soil upon the manure, say six inches thick and at that angle of about 45 degrees with the base toward you and the apex within one foot of the original surface. The decaying manure will not only provide humus but will allow the admittance of the air. Continue with alternating layers and when the end is reached the bottom soil previously laid aside may be used to fill the open space.

The Perennial Border

From now on up to the end of October is the best time to make new borders or divide and replant old ones. When grown commercially it is essential that the soil be spaded deep and, still better, trenched. Then apply a generous amount of well rotted manure. Any extra labor and fertilizer put into the preparation of the border will be repaid for some years afterward in results. Perennials will grow in almost any situation, but in order to do their best they should have an open and sunny situation away from food-robbing roots of large trees. See that each plant has sufficient room to allow it to develop to its full size. Learn the height and spread of each different plant and then plant accordingly.

Preparing for Cold Weather

It is now time to see that all plants that are still outside in frames have the proper protection against frost, otherwise you may get caught and have numerous plants spoiled. So do not take any risks at this late date, but give proper protection from this out.

Mr. Farrell's next notes will be on the following: Ardisia crenulata; Mignonette; Violets; Cannas; Lorraine Begonias; Outdoor Roses.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Strawberries

It is wonderful what strawberry plants will do after the cool nights set in. They seem to relish them equally as much as do the growers. Even when the night temperature goes down to 35 and 40 they will still keep growing if they are fed well. Do not give up encouraging them to grow until they are plunged; all that can be put into them will be repaid when forcing time comes along as the strongest crowns will give the best crops. Continue to feed them every week or ten days with dry manure, using liquid cow manure for two or three days in between. It is better to use liquid for two or three days together in preference to one day only as some are liable not to need any water the day the liquid is used and so they are missed. Recent rains here have made watering a rarity. Keep all runners pinched off as they only weaken the plants and also remove the little side growths that are sure to come on all crowns. They may appear to make the crown look larger now but they are useless and have to be removed when the plants are started into growth or they would produce a quantity of short flowers at the expense of the main crown and its flower spike. Aim to get one good solid crown in each pot.

Ripen Up Pot-Vines

If the vines intended for early forcing are not getting all the sun possible see that they are removed without delay, for completely ripened canes are the only ones to get the "goods" from. For the few weeks remaining before they will be started into growth it will be well to give them the coolest place to be found. There is generally some location that is more exposed than the rest and if the vines are placed here they will feel more "winterish." Diminish the amount of water at the roots, but not too much—just enough to say they are being kept a little on the dry side. Stop all syringing in dull weather and once during the morning will be sufficient in the best of days.

Figs

Fig trees will stand the least amount of frost of any of the various subjects grown for pot work. A few degrees will do them no harm but be prepared to house them at short notice. Any trees that have assumed considerable size and occupy a large tub should be placed in a cool house in the near future as it is no small item to move them and they are not the best of things to protect temporarily. Any sharp frost will injure the first crop for next year which, upon examination will be found in the axils of the leaves or what were the axils, as no doubt many will be leafless at this time.

The Soil

Periodically we hear of making up the different heaps of soil for the various crops to be grown under glass and as October comes around we think of the work to be accomplished in the fruit houses before they are started into growth again. New borders to be made, unsatisfactory borders to be renovated, and top dressings for all. For this work there is nothing to beat sod that has been stacked for about a month or five weeks, long enough only to have the green grass decayed. Some of the later houses have got to put up with it older than this for it will be impossible to get it so short a time before it is needed. At that time we shall be glad to delve under straw-manure and leaves to get soil that is not frozen. Fall rains have also to be considered. When we speak of getting sod at this time of year it is one of the greatest mistakes to work any kind of soil when it is wet; lose a day anytime sooner than get on to the ground before it has had time to free itself of some of the excessive moisture. Sod is mean to handle when wet, in addition to being detrimental to its welfare.

Go over the work to be done and figure up how many loads of sod are required; then at the latest possible date have it hauled to the nearest available spot to where the majority is to be used. Sod heaps are unsightly, a fact often responsible for their having to be located away back some distance from where they are needed. However get them as near as you can, which will all save labor later on. Have the grass mown off close before cutting the sod, which is best done with a sod cutter. When the ground is ploughed up too much fine soil is taken with the sod. Leave sufficient room on all sides of the heap to allow of sufficient protection to be added to keep out all frosts during the winter months.

Falling Leaves

Leaves will be falling right along now in most of the houses. Do not leave them to accumulate from one week end to the next. Saturday is looked on in many places as "the" day for picking up the leaves and a general tidy around. This is all right, but every day should be a day to pick up leaves that have fallen from fruit trees, for, while every endeavor is made to keep them clean there may be some pests lurking around seeking a retreat for the winter months which the soil will afford them. It will only be a few minutes' job for a boy and will be a good investment.

Planting Melons

Through the winter months melons can be planted closer with safety. It will pay to plant them so for then there is not the necessity to get so many on each plant. One foot to fifteen inches (according to variety) will be far enough. We have found this system to answer better than growing in pots, during the past two winters. Watch the young plants closely for green fly and fumigate at once or the tender leaves will be crippled.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Outside Roses

In localities where the frost has already cleaned up the soft plants, the foliage on all the outside growing roses will be practically gone and the plants can be prepared for their wintering. A light mulch can be given of any material that may be on hand. It is best not to apply too much at first, for the weather generally remains quite warm, and the plants need no protection until after severe weather sets in. We never try to save the old wood on the plants, and always apply the mulch along the bottoms of the plants, and then cut them down later in the winter. This refers to the Tea roses that are planted outside for summer blooming, and has nothing to do with the Hybrid Perpetuals and other hardy stock that is never grown inside, and that require different treatment.

The Sod Lot

Just what to do with that piece of ground that was robbed of most of the sod for sod heaps, is a question often turning up in the fall when the sod heaps are being put up. It is waste to allow the land to lie idle and open to the action of the heavy winter rains and winds. This is especially true of places having but limited grounds. Do not allow this land to lie open by any means. The very simplest, and no doubt the best way, is to plow it up and sow in plenty of rye, say two bushels to the acre. If this can be done early enough in the season a little sand vetch can be added, and this mixture will make an excellent green manure to plough under in the spring. A little bonemeal scattered all over the land before sowing the rye will make it take hold of the soil better, thus making a better root system, and also will send it right up when spring comes, which is all the better for the ploughing under.

Old Greenhouse Soil

Now that the rush is over, and the weather has become cooler, making work much more pleasant, the heaps of old soil that have been wheeled out of the houses during planting time, can be disposed of. Do not apply the old soil to fields where you intend to take sod from in the near future, for there are all kinds of germs and fungi in the soil that will take a long time to die, and if the soil is brought into the greenhouse too soon after it has been used once, these spores are very apt to show vigorous signs of life and may make some trouble for the growers. Keep the old soil to spread on fields where farm crops are to be gown for a while to come at least.

Tobacco Stems in the Walks

Now that the ventilators will soon be closed a little more, the old way of keeping out greenfly will be coming into use again. This consists of covering all the walks with fresh tobacco stems, the odor of which will mean death to all the young fly. This system is good where the houses are unusually dry, but in most cases we find that these tobacco stems in the walks keep the atmosphere of the houses too damp to be liked by most members of the rose family. With so many of the good tobacco preparations to choose from, we would certainly do away with this old method that not only makes the houses damp, but also makes them all but agreeable to the health of those who have to work in them.

Using Up the Old Boards, etc.

Every now and then a new fire is started in one of the boilers which gives us an opportunity to dispose of some of the old boards that have a habit of accumulating in spite of an occasional clean-out. Never can these be used to a better advantage than to burn them up in the boilers and thus get a little out of them in heat. Break up all the old boxes that are worse than useless, and burn them. Keep the place looking neat as much as possible. All the most successful places are very neat. That is why they are successful.

Ammoniacal-Copper-Carbonate Mixture

Should blackspot make its appearance among the Beauties, there is nothing better than a spray of the above mixture applied with a fine nozzle so as to cover the affected leaves as much as possible. This will not cure the spot by any means, but will go a great ways towards preventing it from spreading, and if the growers use a little judgment in caring for the plants they will soon pull out of it.

Care of Plants to be Used for Propagating Wood

Be especially careful not to allow spot or any other disease to make its way into the houses where the wood will be taken for cuttings when the season comes. Plants that have been free from disease will give young plants that will resist disease surprisingly. We find that cuttings taken from plants that have never had any spot, will begin to get spot only after the others are almost dead from it. The same we find is true with mildew. The plants that have never had any mildew are not so likely to get it. Not that it is safe to think that because the young plants came from stock that never had any disease, one can disregard the health rules. All the rules must be observed as much as ever, and this, and this only, will keep the plants in perfect health.

Begonia Florence Nightingale

We are indebted to the Gardeners' Chronicle for the picture which adorns this week's title page. The tuberous rooted begonias enjoy deserved popularity, both as outdoor or greenhouse subjects, especially those of compact free-flowering character, good form and texture of petals, and with moderate sized flowers able to hold themselves up gracefully. This variety, which well combines these requisites, was given an award of merit by the Royal Horticultural Society when exhibited last year by Blackmore & Langdon at Holland Park.

HORTICULTURE

VOL. XVIII OCTOBER 11, 1913 NO. 15

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION — Tuberous-rooted Begonia Florence Nightingale.

NOTES ON CULTURE OF FLORISTS' STOCK—Chrysanthemums — Campanulas — Lilies for Christmas—Planting Phlox—The Perennial Border—Preparing for Cold Weather—*John J. M. Farrell*..... 493

FRUIT AND VEGETABLES UNDER GLASS—Care of Strawberries—Ripen Up Pot Vines—Figs—The Soil—Falling Leaves—Planting Melons—*George H. Penson* 494

ROSE GROWING UNDER GLASS—The Outside Roses—The Sod Lot—Old Greenhouse Soil—Tobacco Stems in the Walks—Using Up the Old Boards, Etc.—Ammoniacal-Copper-Carbonate Mixture—Care of Plants to be Used for Propagating Wood—*Arthur C. Ruzicka* 495

BEGONIA FLORENCE NIGHTINGALE..... 495

OUTDOOR FRUIT AND VEGETABLES—Cauliflower—Celery—Lifting the Various Root Crops—Lifting the Exhibition Roots—Exhibition Onions—*Edwin Jenkins* 497

BRITISH HORTICULTURE—*W. H. Adsett*..... 497

CLUBS AND SOCIETIES—Horticultural Society of New York—Connecticut Horticultural Society—Gardeners' National Convention—Albany Florist Club—Chrysanthemum Society of America—New London Horticultural Society 498

Florists' Club of Philadelphia—American Rose Society 499

Elberon Horticultural Society—Club and Society Notes 500

DAHLIA EXHIBITION AT DREER'S NURSERIES, RIVERVIEW, N. J.—Illustrated..... 499

OBITUARY—George R. Oliver..... 500

SEED TRADE 504

OF INTEREST TO RETAIL FLORISTS:

New Flower Stores—Steamer Departures..... 508

Flowers by Telegraph..... 509

Opening of Galvin's New York Store—Wedding Notes—A Penn Advertisement..... 510

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati..... 513

New York, Philadelphia, St. Louis, Washington..... 515

WALTER MOTT'S NOTES BY THE WAY..... 522

MISCELLANEOUS:

The Care of Dahlia Roots..... 500

Catalogues Received..... 504

News Notes.....504, 511

A Denver Legal Controversy..... 509

Chicago Notes..... 510

Rochester Flower Show Abandoned..... 511

Cleveland's Exhibition Hall—Illustrated..... 511

Incorporated—St. Louis Notes..... 515

Million Dollar Garden Pier, Atlantic City, N. J., Illustrated 520

Gardenia Buds Dropping..... 520

Climbing Cut Worms..... 520

Washington Notes..... 520

Personal 521

During Recess—Bowling..... 521

Publications Received..... 522

Greenhouses Building or Contemplated..... 522

Single-flowered chrysanthemums

It is to be hoped that where they are not already provided for, the single-flowered chrysanthemums will be made a special feature at all the forthcoming shows. They have a grace and beauty all their own and the public are beginning to recognize it. There are those who declare that the single-flowered chrysanthemums are the coming fashionable autumn flower and quite likely they are right. Let the floral artists get busy with them and demonstrate their adaptability for table adornment and vase use generally. Properly displayed they give variety and tone to a chrysanthemum show which is not otherwise attainable.

The Rochester way

We confess to a twinge of disappointment on learning that the Rochester Florists' Association will probably decide to abandon for a year the project of a big fall flower show, plans for which were already well matured. The Rochester shows, thus far, have been worked out on advanced lines and have furnished example and incentive much needed in many quarters, in the art of planning and arrangement for general effect. But "the better part of valor is discretion," and since there was some doubt of financial success, the cautious course is certainly the wisest. It is quite a novel idea that the withdrawal of the retail florist support should cause cancellation of an exhibition scheme. We have seen many shows where there was no retail support to withdraw. We wish Rochester all kinds of success next year and would suggest that the S. A. F. convention in Boston will be a good place to do a little campaigning to that end.

Profitless work

Experience is credited with being a great teacher—the best, in fact. But it does find what appears to be a tedious and almost hopeless job with some of the growers of flowers for market. One needs only to saunter through the wholesale marts of any of our large cities and take note of the trashy mixture of dahlia flowers, for instance, on which growers have paid good money for transportation but which presents not one single quality to recommend it and makes no appeal to the buyer for any practical use. This is equally true as applying to the gladiolus in its season and in a modified degree to a number of other flowers. We are not now referring to qualities of care or culture but simply to selection of varieties as to color, form, etc. The same old discredited sorts are grown over and over again year after year, apparently for no other reason than that the growers have them in stock, and oblivious to the fact that there are scores of varieties easily and cheaply obtainable, the flowers of which have a distinct and regular market value. We do not need to say that it takes just as much room, attention and care to grow the unsalable sorts as it does to grow those that the market will take and for which it will pay a good price.

Get a move on

Prizes offered for forced bulb material at the various spring exhibitions are fairly liberal, considering the little care and cultural skill required to bring them in. Yet, although the list of available varieties of tulips, narcissi and hyacinths is constantly being added to and presumably improved by European introducers, we see little, if any, advancement in these things as exhibited in this country from year to year, during the past quarter-century. It is not the fault of the seedsmen that so many planters and exhibitors cling to old deteriorated varieties, for the more progressive seed houses have been continually eliminating the worn-out sorts and cataloguing better things each season as soon as the price placed them within reach. Hyacinths such as Charles Dickens and Norma, once invincible, have today no chance on the exhibition board, against Enchantress, Lady Derby or Morina. Horsfieldi in narcissi is now hardly worth growing and the same is true of many once victorious tulips. Exhibitors abroad are far in advance of us in this respect as accounts in the foreign gardening papers show. We should like to see a little more enterprise and enthusiasm displayed on this side. There is still time to work up something creditable for next spring's shows.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Cauliflower

Cauliflower should be carefully gone over and the leaves drawn together and tied to protect the head (flower) from rain and frost as well as to keep it as white as possible. Now that there is danger of rather severe frost it is well to draw the soil well up around the stem and bottom leaves or to pack them well between and around the plants with litter or leaves. This will help to keep them quite late.

Celery

The celery that is to be left outdoors for the winter should be earthed up as a protection against frost as well as for blanching and before doing this it is well to tie each head carefully with a little thin raffia. Such stock that is going to be lifted and put in cellars or other frost-proof places are easily protected by boards placed on either side of the rows or by packing clean litter in between the plants.

Lifting the Various Root Crops

During favorable weather the crop of carrots, beets, salsify, and some of the parsnips, should be lifted and stored away for winter. Do not let these roots lie long on the ground before gathering them up as the quality is impaired by any great amount of drying. They are best kept where the temperature is just above the freezing point and an earth floor is more suitable than any thing else. Some parsnips may be left in the ground for the winter and if these are dug soon after frost is out their flavor will be found to be excellent.

Lifting the Exhibition Roots

Great care must be taken in this or all the season's work will be thrown away just by some slight accident which might be avoided if the job is done right. It does seem like a lot of work to dig right down to the bottom of a carrot or parsnip which is over three feet long but it is the only way to be sure to get it, for while it is sometimes possible to get hold of the top and draw the whole thing out, yet, on the other hand, it may break and then your root is gone and it is almost sure to be one of the best specimens that is ruined. So don't be tempted by "the easiest way" but go right in and dig. Having removed the roots from the ground soak them in a tub of clean cold water and sponge lightly. Then selecting the cleanest, straightest and best colored specimens, wrap them in wax paper and lay them in a cool root cellar, covering lightly with damp moss until the day of exhibition, of which "more anon."

Exhibition Onions

These should be hung in an airy loft so that the air can circulate all around them as these highly fed specimens are very apt to rot. Those who have not the good loft to hang them in can put their best bulbs in flats on shallow boxes upon a layer of excelsior and turn them over every few days so as to expose every part of them, and while a certain amount of sunshine will do them lots of good I would not expose them to the full sun under glass. Of course, if they are in a frame where the sash can be easily removed the sun will do no harm but in the greenhouse it is well to cover them with tissue paper during the hottest part of the day.

BRITISH HORTICULTURE.

Sweet Pea Trials.

The Committee of the National Sweet Pea Society have arranged to hold a series of trials next season at the Burbage Experiment Station Leicestershire, under the direction of Major C. C. Hurst. No certificate or award is given by the society for novelties unless they are sent for trial. If desired a test will be made as to the purity of the stock, on the payment of an extra fee. The annual meeting of the National Sweet Pea Society will be held in London, on Oct. 20th, when a satisfactory report will be presented as to the past year's progress.

Our Loss—America's Gain.

A well known figure in the horticultural world in the person of Mr. J. Harrison Dick, is leaving London to take up his residence in the United States. Mr. Dick, as the editor of the "Journal of Horticulture," has been held in the highest esteem by his colleagues. This was demonstrated at a gathering in London on Sept. 11th, when he was presented with a gold watch and an illuminated address by his gardening press confreres. He received felicitations on his new sphere of work, and best wishes for continued success. Mr. Dick has rendered valuable service to the United Horticultural Benefit and Provident Society, the committee of which have given him a gold fountain pen and an illuminated address, conveying good wishes and high appreciation of Mr. Dick's useful aid.

Hybrid Orchid Register.

The orchid committee of the Royal Horticultural Society have recommended that a new record, to be called the "Hybrid Orchid Register" should be established. Orchid raisers and growers are to be asked to bring their new plants when in flower for the first time, even although they may not be sufficiently developed to enter for awards, and to enter the name, parentage, and name of the exhibitor, on a registration form, to go before the committee. After testing to prove that the name is in order, it will be entered on the society's "Hybrid Orchid Register," and, once recorded, the name must be recognized for all crosses of similar parentage when subsequently shown, unless valid reason can be produced to prevent it.

The Dahlia Season.

The Royal Horticultural Society's show on Sept. 23rd was notable for an interesting display of dahlias. The Cory cup for a group of decorative garden dahlias was won by Carter, Page and Co., London Wall. E. C. Included were Negro and Union Jack (collarettes), Mrs. D. Fleming, Amos Perry and Australian (cactus), Delice and Mdme. Lamiere (decorative), Red Indian and Chieftain (pompons). Warnaar & Co., Sassenheim, Holland, had a fine show of imposing paeony-flowered varieties. The following new dahlias have received a first-class certificate from the National Dahlia Society: Rosa, a rosy mauve pompon by Keynes, Williams & Co., Salisbury; Wee Gracie, a cream pompon, by J. T. West, Brentwood, Essex; John Green, paeony-flowered, scarlet, with bright yellow centre; Pierrot, pale yellow cactus; Dorothy Hawes, deep rosy-pink cactus, and E. F. Hawes, shell pink cactus, by Stredwick & Son, St. Leonards-on-Sea, Sussex.

W. H. Adsett.

CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF NEW YORK.

The big fall show is only a short time off, beginning on October 31st and continuing until November 4th. It will be held in the spacious halls of the American Museum of Natural History, located in one of the finest residential sections of New York City. This building is one of the largest and finest in the world devoted to the natural sciences. Schedules and entry blanks will be sent upon application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, New York City. Everything points to a big exhibition. New York is the center of a large horticultural field, which does and can produce the best examples of the horticulturist's art. An invitation is extended to all the local societies to help make this the biggest and best exhibition of years.

Do not forget that the National Association of Gardeners holds its annual meeting, as the guest of this society, during the exhibition, a hall having been reserved for their use at the American Museum of Natural History. This meeting will bring a large number of gardeners from all parts of the country, so let us take pride in showing all what can be done along the line of horticulture. Generous prizes are offered for chrysanthemums, roses, carnations, foliage and decorative plants, and orchids, and it is the policy of the society to offer special prizes for worthy exhibits not provided for in the schedule. Send your exhibits where they will be seen and appreciated by the many. Over 130,000 visited the fall exhibition last year.

For the first time in its history, the society is offering a silver cup, valued at over $100.00. This is to be awarded for the best exhibit of twelve vases of chrysanthemum blooms, in twelve varieties, three blooms of each, stems 18 inches long.

An appeal is made by the secretary for prompt entries of exhibits. Do not wait until the last minute, for this greatly increases his labors and interferes seriously with the proper and artistic arrangement of the exhibits. Send in your entries promptly that proper arrangements may be made for their display. First come will be first served.

GEORGE V. NASH, Secretary.

CONNECTICUT HORTICULTURAL SOCIETY.

The second September meeting of this society was held on the 26th evening of that month at the County Building, Hartford. This was "Dahlia Night" and the centre tables were completely filled with dahlias in cactus, decorative, collarette, show, fancy and peony classes. President Huss exhibited nearly sixty varieties, Niel Nelson about fifty varieties, and A. Righenzi about thirty varieties. The judges announced the following awards: President Huss, first-class certificate; Mr. Nelson, a first-class certificate, and Mr. Righenzi a cultural certificate. The exhibitors gave instructive addresses, going into details regarding the culture and propagation of these favorite flowers. The meeting was well attended.

ALFRED DIXON, Secretary.
Wethersfield, Conn.

GARDENERS' NATIONAL CONVENTION.

The annual convention of the National Association of Gardeners will be held this year in New York City during the fall flower show of the Horticultural Society of New York, which takes place October 30th to November 4th.

The business session of the association and the election of officers for the coming year will occur on Monday, November 3rd, at the American Museum of Natural History, in which building the flower show is held. On the evening of November 3rd the annual banquet of the association will occur at the Hotel Endicott, New York City.

Members intending to attend the banquet at the Hotel Endicott should notify any member of the following committee so that reservations may be made for them:—Thomas W. Logan, Jenkintown, Pa.; James Stuart, Mamaroneck, N. Y.; William J. Kennedy, Chestnut Hill, Mass.; John F. Huss, Hartford, Conn.; John W. Everitt, Glen Cove, N. Y.; John Canning, Ardsley, N. Y.; Peter Duff, Orange, N. J.; and M. C. Ebel, Madison, N. J.

Everything points to a big convention, and the committee cannot give assurance to those who decide on the last day to attend the banquet, that they can be provided for. Tickets to the banquet are $2.50. Several men prominent in the horticultural world have expressed their intention of being present at the banquet, among whom are some able after-dinner speakers; and with the general programme a gala night may be anticipated.

M. C. EBEL, Secretary.

ALBANY FLORIST CLUB.

The monthly meeting of the Albany Florist Club was held on Thursday, October 2nd, at the Albany Cut Flower Exchange, which will be the meeting place hereafter. The Flower Show and Publicity Committee reported progress. An invitation was extended to the club to visit J. H. Snyder, the violet grower of Rhinebeck, N. Y., on Sunday, Oct. 5th, and about twenty members agreed to go. Two nominating committees, three members each, were appointed by President Henkes, to be known as the regulars and the opposition, to prepare separate tickets to be voted upon at the December meeting. The regulars are Fred Goldring, Thos. Tracey and Louis H. Schaefer; opposition, Edw. Tracey, John Haggerty and Frank R. Bilson. After adjournment Thos. Tracey, manager of the Albany Cut Flower Exchange, invited the members to a spread, which all hands enjoyed very much, extending a vote of thanks therefor. The next meeting will be at above place on Thursday, Nov. 6th.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Examining Committees.

President Chas. H. Totty announces the committees to examine new chrysanthemums for the ensuing year, which are as follows:

Chicago—J. B. Deamud (chairman), E. O. Orpet, D. A. Robertson. Ship flowers to J. B. Deamud, 160 N. Wabash Ave., Chicago.

Cincinnati—R. Witterstaetter (chairman), James Allen, Henry Schwartz. Ship flowers to chairman, Jabez Elliott Flower Market, care janitor.

Boston—Wm. Nicholson (chairman), James Wheeler, Alex. Montgomery. Ship flowers to Boston Flower Exchange, 1 Winthrop Sq., care chairman.

New York — Eugene Dailledouze (chairman), W. H. Duckham, A. Herrington. Ship flowers to New York Cut Flower Co., 55 W. 26th St., care chairman.

Philadelphia—A. B. Cartledge (chairman), John Westcott, S. S. Pennock. Ship flowers to A. B. Cartledge, 1514 Chestnut St.

Shipments should be made to arrive by 2 P. M. on examination days to receive attention from the committee. Must be prepaid to destination and an entry fee of $2 should be forwarded to the secretary not later than Tuesday of the week they are to be examined, or it may accompany the blooms.

Seedlings and sports are both eligible to be shown before these committees, provided the raiser has given them two years' trial to determine their true character. Special attention is called to the rule that sports, to receive a certificate, must pass at least three of the five committees.

The committees will be in session to examine such exhibits as may be submitted to them on each Saturday during October and November, the dates of which will be October 11, 18, 25, and November 1, 8, 15, 22, 29.

Official Judging Scales.

Commercial—Color 20, form 15, fullness 10, stem 15, foliage 15, substance 15, size 10. Total 100.

Exhibition—Color 15, stem 5, foliage 5, fullness 15, form 15, depth 15, size 30. Total 100.

Single Varieties—Color 40, form 20, substance 20, stem and foliage 20. Total 100.

Pompons—Color 40, form 20, stem and foliage 20, fullness 20. Total 100.

Single varieties to be divided in two classes, the large-flowered and the small-flowered.

CHAS. W. JOHNSON, Sec.
Morgan Park, Ill.

NEW LONDON HORTICULTURAL SOCIETY.

This society held its annual dahlia show Wednesday, Sept. 24th. Owing to the dry weather there was not so much competition among the exhibitors. Mrs. O. P. Chapman, Jr., of Westerly, R. I., staged about 400 specimens, the chief attraction being a large cactus, twelve inches in diameter. It's the only plant in this coun-

DAHLIA EXHIBITION AT DREER'S NURSERIES, RIVERVIEW, N. J.



The accompanying illustration shows a portion of the extensive exhibit of dahlias, etc., in the Service Building at Riverview Nurseries, during the out-door Fall Flower Show, Oct. 4th., to 11th inclusive. An exhibition of this character enables visitors to make a closer inspection of the individual flowers than may be made in the fields where the cultures of dahlias are composed of over 800 varieties, many of which have not as yet been introduced. We have seen a good many dahlia exhibitions this fall but for novelties and good things, nothing like what was to be seen at Dreer's. Here were all the novelties from Europe—and these have to be seen to be believed. The rank and file have not been keeping track of the wonderful things the European growers have been doing of late years. You have to go to Dreer's to be up to date. We must leave for a later issue a critical review of the varieties, of course, but we may state here briefly, that the vast improvements in the collarte, cactus and decorative classes, were a revelation.

In cannas, the recent favorable weather gave a show that was simply amazing for October. Wm. Bates, Moros, and Gustave Gumper were the bright particular stars, not forgetting Hungaria of which latter there were shown some 25,000 clumps, probably the largest single stock in the country of that fine new variety. Over fifty varieties of phloxes were shown, all unusually fine for the season. The perennials, such as delphinium, helianthus, asters, etc., filled two long tables and were of surpassing interest.

Hardy perennials at the "Riverton" Nursery are also attracting much attention, as many of the late-flowering varieties are now in bloom. Other attractions, such as the water lily ponds, rock garden, hardy shrubs, evergreens, grasses, etc., together with the extensive houses of decorative plants, etc., are all attracting much attention and go towards making this Fall Flower Show a grand success. Many automobiles laden with enthusiastic flower-lovers are constantly arriving besides hundreds of visitors, by train and trolley.

---

try. Two other fine exhibits were by George L. Stillman, of Westerly, and W. M. Carroll, of Waterford. Andrew Beran, superintendent of the George M. Landers estate, put up a fine group of dahlias grown in six-inch pots. The children from the schools had good collections of vegetables and wild flowers.

If readers of HORTICULTURE want to see dahlias growing they should try to visit the Hillcrest Dahlia Gardens, Westerly, R. I., owned and worked by Mrs. O. P. Chapman, Jr. The fields are one mass of bloom of all colors.

H. LICKMAN.

Waterford, Ct.

FLORISTS CLUB OF PHILADELPHIA.

By forty-three to twenty-eight J. Otto Thilow was reelected Tuesday evening, Oct. 7, to the presidency for the third term, over one of the strongest candidates that could have been put up, Adolph Farenwald. This is no disparagement to Mr. Farenwald, but only shows how strong a hold Mr. Thilow has on the rank and file of the Club and their appreciation of the splendid work he has done during his incumbency.

A fine sport of Maryland after the style of Sunburst was exhibited by George Burton. It was highly commended by the committee and will be heard from in the future. Aurora has been suggested as a name for it and same seems very appropriate as it suggests the beautiful color. It is a great bearer and bids fair to be a commercial variety of importance. C. H. Grakelow told the members of his trip to Panama.

AMERICAN ROSE SOCIETY.

A Call for Names of American Roses.

It is the effort of the American Rose Society to obtain a complete and accurate list of all the varieties of roses which have been originated on the American Continent, as far as it is possible to obtain them. This letter is addressed to rosarians with the hope of obtaining the fullest assistance in this direction. It is the intent to publish in the Annual Bulletin of the American Rose Society the list, as fast as it can be properly compiled, for authentic record.

Will you please give us this information:

What roses have you originated?
Names .....
.....
In what year?.....
At what place?.....
Pedigree of the same.....

If you have not personally done this work, but have any information bearing upon the subject, will you kindly give what assistance you can?

BENJAMIN HAMMOND,
Secretary.

The third annual flower show of the Oyster Bay (N. Y.) Horticultural Association was held on Oct. 2 and 3. It was the most successful exhibition in the history of the association. A chrysanthemum show will be held on Friday, Oct. 31.

ELBERON HORTICULTURAL SOCIETY.

Following is the list of special prizes to be competed for at the Annual Chrysanthemum Exhibition to be held at Asbury Park, N. J., on October 27-29th. Get busy, ye militant growers. Every win is a boost:

Charles H. Totty's silver cup for ten best white chrysanthemums.

The Wells' gold, silver and bronze medals for best two blooms of Miss Clara Banghart.

Hitchings & Co., silver cup for the best and largest bloom of chrysanthemum (Class 24 in Schedule).

Michell's Seed House, gold medal to the exhibitor winning the most prizes in points, based as follows: 3 points for a first prize; 2 points for a second prize; 1 point for a third prize.

Michell's Seed House, silver medal for the best and largest vase of 5 chrysanthemums: 1 pink, 1 white, 1 yellow, 1 bronze, 1 crimson, any variety.

Bobbink & Atkins, Rutherford, N. J., for a specimen plant of Phoenix Roebeleni: first prize, $7.00; second, $3.00.

CLUB AND SOCIETY NOTES.

The annual exhibition of the New Hampshire Horticultural Society will be held at Laconia on Oct. 22-24.

August Poehlmann, Guy French, George Asmus, M. Barker and Joe Einwech for C. L. Washburn, a committee representing the Chicago Florists' Club, met Oct. 6 with the following committee from the Cook County Florists' Association: A. Henderson, H. N. Bruns and W. Keimel. The object of the meeting was to bring about an affiliation of the two clubs, resulting in a motion to that effect to be presented to the clubs at their next meetings.

A very fine exhibition of vegetables was staged in Horticultural Hall, Boston, on October 4 and 5. It was free to the public. Splendid collections were shown by Col. Fred. Mason, A. W. Preston, Oliver Ames, J. A. Nixon, F. W. Sargent and W. J. Clemson. In the special classes, these exhibitors were also well represented as well as Mrs. J. L. Gardner, Wm. Whitman, David R. Craig, G. W. Page, Warren Heustis & Son, Mrs. A. A. Warburton and others. There were a few fruit exhibits of excellent quality. A first-class certificate of merit was awarded to R. & J. Farquhar & Co. for a new single hardy chrysanthemum from Corea.

At the monthly meeting of the Elberon (N. Y.) Horticultural Society on Monday, October 6th, awards were made as follows:

George Masson for dahlias, 90; C. O. Duncan for apples, 80; and Wm. R. Seymour for gardenias, 70 points. A certificate of culture was awarded to George Masson for a large display of dahlias.

The coming fall show, which will be held in the Casino, at Asbury Park, N. J., October 27-29, was the chief business of the evening. Schedules have been mailed to past exhibitors and will be sent to anyone upon request. The show promises to surpass all previous shows which the society has held. The schedule provides for over $1,000 in cups, medals and cash prizes. A very interesting and instructive paper was read by George Masson on "The Culture of Bulbs," with an interesting discussion following. The next meeting will be held on November 3rd.

Choice Hardy Climbing Roses

THE BEST OF RECENT INTRODUCTION

Prices per 100 F. O. B. West Grove. Strong Field Grown Stock

	1 Yr.	2 Yr.
Alice Aldrich, Rugosa		$12.00
American Pillar	$5.00	15.00
3 Year.. $35.00 and $25.00		
Dr. Van Fleet	7.00	20.00
Dorothy Perkins	5.00	10.00
Dorothy Perkins, White		10.00
Evangeline		10.00
Excelsa	7.50	12.50
Farquhar	6.00	10.00
3 Year $20.00		
Gardenia	7.50	12.50
Hiawatha	7.00	10.00
Lady Gay	7.00	10.00
May Queen		10.00
3 Year $15.00		
Minnehaha	6.00	10.00
Miss Messman		15.00
Northern Light	7.00	10.00
3 Year $12.00		
Rambler White		70.00
Ruby Queen		10.00
3 Year $15.00		
Sir Thomas Lipton, Rug.		12.00
Tausendschon		12.00
Universal Favorite	8.00	
Violet Blue	8.00	12.00
White Dorothy	10.00	

ORDER FOR FALL PLANTING

THE CONARD & JONES COMPANY

BOX H, WEST GROVE, PENNA.

In Writing Advertisers Kindly Mention HORTICULTURE.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

When writing to advertisers kindly mention HORTICULTURE.

Christmas Peppers

New Cluster Pepper, Celestial Peppers. Strong plants with fruit, from 4½ in. pots, $1.50 per dozen, $12.00 per 100.

Table Ferns, fine plants from 2¼-inch pots, best assortment, $3.00 per 100; $25.00 per 1000.

Primroses, Obconica, 2½-in. pots, the very best strains, strong plants, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates. Cash with order.

Frank Oechslin, 4911 Quincy St. CHICAGO

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P O No 1, Hoboken, N. J

Mention HORTICULTURE when writing.

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE, May 17th, page 750.

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST

WASHINGTON, NEW JERSEY

GEO. J. PEARSON, Pres. & Treas. WM J. ZARTMANN, V. Pres. & Secy

FAIRFIELD LANDSCAPE & NURSERIES CO.

ENGINEERS AND CONTRACTORS

Parks, Cemeteries, Golf Courses

Planting, Landscape Construction, Road Building, etc.

41st Street and Park Ave., NEW YORK

OBITUARY.

George R. Oliver.

George R. Oliver, aged 78, one of the older residents, died at his residence in Bradford, Pa., on Sept. 25. He had lived in Bradford for the last 30 years and 18 years ago became a florist, which business he was conducting at the time of his death. Besides his widow he is survived by one son, and three daughters.

THE CARE OF DAHLIA ROOTS.

Editor HORTICULTURE:

Please tell me if it is better to separate dahlias in the fall than in the spring. I find that during the winter many of them break off from the main stem and sometimes a whole variety is lost by breaking. Also, if dahlias should be taken up before or after the foliage has been frozen.

Thanking you in advance,

Yours truly,

Mass. M. F. J.

Either fall or spring will do. The only objection to fall separation is that the split parts may dry out and so kill off the eye. One point in favor of waiting till spring is that one can see the eyes better then than in the fall.

It is immaterial whether dahlias are taken up before or after the foliage has been frozen, provided the frost has not been severe enough to reach the base of the stem and the eyes or to cause rotting of the lower stem and incidentally the eyes.



IF YOU ARE IN NEED OF

HARDY PERENNIAL PLANTS

"Get them at Dreer's"

This Fall we are better than ever prepared to serve you with this class of stock and particularly call your attention to our *"Specials"*

JAPANESE IRIS GERMAN IRIS
HARDY PERENNIAL PHLOXES
DOUBLE HERBACEOUS PAEONIES

Send for our special circulars describing these if you have not already received copies.

Our ***Current Wholesale List*** describes all other seasonable stocks. Consult it before you place your orders.

HENRY A. DREER, Inc.

714 CHESTNUT STREET - - PHILADELPHIA, PA.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. **Subscription price $1.00 per year. Foreign subscriptions $1.50 per year.** In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL
TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

When writing to advertisers kindly mention HORTICULTURE.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
½ oz. $2.00, 1/16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.

Boston, Mass.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Fine Plants for Growing On

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING

Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.

Mention HORTICULTURE when writing

HAVE THEM SHIPPED NOW

Before Cold Weather Comes

Fine Stock for Present Use and to Grow On for Christmas

BEGONIAS

Glory of Cincinnati—2¼ in., $16.00 per 100.
Gloire de Lorraine—2½ in., $12.00 per 100; 5 in., extra strong, $6.00 per doz.; 6 in., extra strong, $9.00 per doz.

Azaleas—All sizes, shipments just in.
Chrysanthemums—6 in. pots, $4.00 to $6.00 per doz.
Cyclamen—$2, $4, $6 and $9 per doz.
Poinsettias—4 in. pans, $6 per doz.; 6 in. pans, $7.20 per doz. and up.
Primroses—3½ in., $1.50 per doz.
Geraniums—5 in., dark red and pink, $3.00 per doz.
Palms and Roosevelt Ferns, all sizes.
Cash or satisfactory reference.

W. W. EDGAR CO., Waverly, Mass.

Mention HORTICULTURE when writing

BUY YOUR Gladiolus America

FAMOUS FOR FLORISTS FROM FLOWERFIELD

Acclimated--True--Healthy

Ask for Gladiolus Catalogue

JOHN LEWIS CHILDS
FLOWERFIELD, L. I., N. Y.

ROOTED CUTTINGS

SANTOLINAS, $6.00 per 1000
GERANIUMS, Nutt and Poitevine; and DOUBLE PETUNIAS; $12.00 per 1000.
HELIOTROPE, $10.00 per 1000.
ACHYRANTHES, $1.00 per 100
ALYSSUM, 2-in., 2c. Cash, please.

O. F. SEARLES, Box 208,
NASHUA, N. H.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

JAPANESE IRIS

Also German. 10,000 clumps must be sold at once. Finest Mixed Varieties, $7.00 per 100, $50.00 per 1000. CASH.

FOX HALL FARM, R. F. D., No. 2
NORFOLK, VA.

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

Lilium Candidum, 18-20 ctms., . . $3.75 $35.00 **Lilium Candidum,** 20-22 ctms , . . $4.25 $40.00

Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

Gladstone. Enormous spikes of pure white flowers $6.00 $55.00

Queen of Holland. One of the finest; grand florist's variety, white . . . $8.00 $75.00

THE GODFREY CALLA—Also CALLA AETHIOPICA

From the Guernsey Islands (A New Source)

All in excellent condition, sound and free from disease.

The Godfrey Calla. Large bulbs, $7.50 per 100, $70.00 per 1000; First size, $6.00 per 100, $55.00 per 1000; Mailing or Second size, $5.00 per 100, $45.00 per 1000.

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

ORCHIDS

Holiday Flowering Stock

2000 PLANTS IN SHEATH

CASE LOT PRICES

One year established. Double Value to purchaser. QUICK RETURNS.

Will you have all the flowers you want in December? Special list ready. Cattleyas, Dendrobiums, Oncidiums, Laelias, etc.

FREEMAN ORCHID COMPANY

G. L. FREEMAN, Mgr.

FALL RIVER, MASS.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS

FRESH IMPORTATIONS ARRIVED: Cattleya Trianae, special fine type C. Dowiana, C. Gaskelliana, C. Percivalliana, C. speciocissima, Oncidium splendidum, O. bicallosum, Odontoglossum grande, Lycaste Skinnerii, Dendrobium formosum, D. Jamesianum, D. chrysotoxum, etc.

LAGER & HURRELL. Summit N. J.,

ORCHIDS

WELL GROWN PLANTS of all leading kinds including:

BRASSO-CATTLEYAS, LAELIO-CATTLEYAS, ODONTIODAS

that have now become so deservedly popular

SEND FOR PARTICULARS of anything that interests you.

CYCLAMEN SEED of our celebrated strain now ready including, "MRS. BUCKSTON," the most popular novelty of recent years.

During September and early October, our MR. H. A. BARNARD will be in the United States,

Address, Hotel Albert, University Place, New York City

He would be glad to hear from anyone interested.

STUART LOW & CO., ROYAL NURSERIES, Bush Hill Park **Enfield,** Middlesex, ENGLAND

In Writing Advertisers Kindly Mention HORTICULTURE.

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.

LOCK BOX 5

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.30

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case)	$1.25	$8.50
14 ctm. bulbs (1000 to case)	1.50	10.00

A. Henderson & Co.

369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann

Wholesale Grower and Importer

1012 W. Ontario St., PHILADELPHIA, PA.

When writing to advertisers kindly mention HORTICULTURE.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Albany, Mo. The Spainhower Seed Company will soon start business in farm seeds.

Weatherford, Tex. It is reported that Everett Scott will open a seed store here shortly.

According to the announcement of the Department of Agriculture, the onion growing industry is in jeopardy on account of the invasion of the onion eelworm, a pest hitherto unknown in this country.

Alfred Emerich, representing Vilmorin, Andrieux & Co., Paris, France, arrived in New York October 1st and will pay his usual visit to the seed trade throughout the United States and Canada. During his stay in this country his mail address will be 26 Barclay St., New York City.

The J. J. Wilson Seed Co. have their new seed and implement establishment in Newark, N. J., in good running order and business has started out with pleasing activity. This company has secured the agency for the Garden Gazing Globes on which there has been such a run the past season as a piece of formal garden furniture.

CATALOGUES RECEIVED.

F. & F. Nurseries, Springfield, N. J. —Fall Trade List, 1913.

Leesley Bros. Nurseries, Chicago, Ill. —Wholesale Catalogue, Fall, 1913.

F. C. Heinemann, Erfurt, Germany. —Special Trade Offer of Novelties for 1914.

Jim Parker, Tecumseh, Okla.—Supplus List and Want List in Nursery Stock.

Kelly Brothers Nurseries, Dansville, N. Y.—Fall wholesale list of fruit trees, small fruits, etc.

W. W. Barnard Company, Chicago, Ill.—Wholesale Price List of Bulbs and Seeds for Fall Planting. Illustrated.

J. F. Noll & Co., Newark, N. J.—Bulb Catalogue, Autumn, 1913. Darwin tulips are used as an appropriate and timely cover illustration.

J. Bolgiano & Son, Baltimore, Md.—Bolgiano's "Blue Book" for 1913. Tells about spring flowering bulbs. Illustrated.

Vaughan's Seed Store, Chicago and New York.—Illustrated Catalogue for Fall, 1913. Cover in colors—tulips and peonies.

MICHELL'S INTERMEDIATE GIANT FLOWERING

Sweet Pea -- Blanche Ferry

A novelty of extraordinary value to the florist. Seed sown in October will commence flowering March 15th and continue through April and May. Three to four extra large blooms are produced on long stems from 16 to 20 inches in length. The culture of this variety is the same as all other Winter Flowering sorts, except that it should be sown during the month of October. Our seed is original greenhouse grown stock. Per oz., $1.00; $3.50 per ¼ lb.; per lb., $12.00.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

SEND FOR OUR WHOLESALE CATALOGUE IF YOU HAVEN'T RECEIVED A COPY.

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

R. J. Irwin, New York.—Florists' Wholesale Catalogue of Plants, Cuttings, Bulbs and Choice Flower Seeds. A well compiled and useful list.

W. Atlee Burpee & Co., Philadelphia, Pa.—Illustrated Descriptive List of "Four of the Finest" New Spencer Sweet Peas for 1914; also Advance Offer of Sweet Peas for 1914.

—Well printed, unique and attractive in makeup, the first Catalogue of Bulbs, Hardy Herbaceous Perennial Plants, Etc., of this new seed house makes a most favorable impression.

Fottler, Fiske, Rawson Co., Boston, Mass.—Bulb Catalogue for 1913. Includes also hardy perennials, shrubs, implements, etc., a very neat and well made fall list of good things for garden or greenhouse.

M. Rice Co., Philadelphia, Pa.—Supplement to the "Willing Helper." Everybody in the trade knows the "Willing Helper" catalogue. This 12-page supplement is same size pages and intended to be attached to the main catalogue. It will be found very suggestive and useful to patrons of "The House of Rice."

Eastern Nurseries, Jamaica Plain, Mass.—Wholesale Trade List for Fall, 1913. An advanced list of ornamental hardy material indispensable in the planting of home grounds, landscaping, etc. Fine illustrations are given of the popular roses—Sargent, Egan, Farquhar, Minnie Dawson, Lady Duncan, Daybreak and Dawson.

NEWS NOTES.

Louisville, Ky. The 40 per cent offer to the creditors of Nanz & Neuner has been accepted and settlement made.

Kansas City, Mo. T. J. Noll, formerly with Arthur Newell, has entered the wholesale and commission business for himself at 1109 Grand avenue,

Troy, Ala. The greenhouses owned by the late Mrs. Fannie Starke have been purchased by J. G. Watson and A. H. Jackson, and the business will hereafter be conducted under the name of the Troy Floral & Nursery Company.

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. **Trimardeau Selections**, mixed, $4.00 per oz., 50c. tr. pkt. **Trimardeau**, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. **Cassier's Giants Improved**, splendid mixture, $5.00 per oz., 50c. tr. pkt. **Trimardeau Sorts** as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. **$1.00 Trade pkt. $12.00 ounce.**

GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. **50c. Trade pkt. $5.00 ounce.**

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

BUY

Gold Medal Holland Bulbs

Our Specialty. Finer Quality Does Not Exist

We Offer for Immediate Planting Choice Selection of Peonies and Japan Iris, all home-grown stock.

Exclusive Agents for Garden Gazing Globes.

Write for Catalogue

J. J. WILSON SEED CO., Inc.

79 Orange St., Newark, N. J.

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas: Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $5.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Co p.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

REMOVAL NOTICE

We are Now Permanently Located At Our New Address

98 Chambers Street, N. Y.

Between Broadway and Church Street

Telephone 6138 Barclay

BURNETT BROS., - Seedsmen

CHAS. SCHWAKE & CO.

INC.

Horticultural Importers & Exporters

90-92 West Broadway NEW YORK

SOLE AGENTS FOR UNITED STATES AND CANADA OF

AUGUST HOHMANN'S VALLEY EXPORT

ESTABLISHED 1859

Hamburg, - - - Germany

FOTTLER FISKE RAWSON CO.,

LILIES BOSTON

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

PANSY SEED

Specially Blended for Florists Use.

TRADE PKTS. $1.00.

Wm. Elliott & Sons

42 Vesey St., New York

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

MUSHROOM SPAWN.

New Shipments Just Received

English Finest Quality....$ 8.00 per 100 lbs.

American Pure Culture...$12.00 per 100 lbs.

WEEBER & DON

Seed Merchants, 114 Chambers St., New York

FREESIA

	100	1000
REFRACTA ALBA, ⅜ to ½ in. diameter	$0.60	$4.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15	$3.50	$32.00
NARCISSUS, Paper White Grandiflora, 13-15	1.25	8.00

HAVE YOU OUR FLORISTS' CATALOG?

J. M. Thorburn & Co

"The most reliable seeds"

53 Barclay St. (T 16) NEW YORK, N. Y.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place

NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

ONION SETS

Write for Prices

226-230 W. KINZIE STREET, CHICAGO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

PALISADES POPU

A RARE OPPORTUNITY OF STOCKING UP FOR FALL AND SP

Special surplus offer HARDY PERENNIALS or Old Fashioned Flowers. **Prices**
Orders will be filled in rotation and as long as the ground remains open. Terms cash
here listed and descriptions see our regular wholesale catalogue. No less than 1



3 in. Pots.	Field Roots.	Name.	Price per 100.
	500	Achillea Mill. Roseum....	$3.50
	300	" Cerise Queen....	4.50
250	500	" The Pearl.....	3.50
200	250	" Tomentosa	4.50
	400	Aconitum autum.....	6.50
	500	" Nepellus	6.50
	350	Aegopodium Pod. Var....	3.50
	600	Agrostema coronaria.....	3.50
	500	" Alba	4.50
	500	Ajuga Genevensis.....	3.50
	250	Alyssum rostratum.....	5.50
	250	" Sax. Conp.....	5.50
	2000	Anchusa Dropmore Var...	6.50
	1000	" Opal (New).....	6.50
	3000	Anemone Jap. alba.....	5.00
	750	" " Alice	5.50
	1500	" " Mt. Rose.	5.50
	500	" " Pr. Heinrich	5.50
	1500	" " Q. Charlotte	5.00
	2500	" Rosea sup...	5.00
	750	" " Rubra.....	5.00
	2500	" " Whirlwind..	5.00
	250	" Pensylvanica ...	5.50
	500	" Pulsatila	3.50
	500	Anthemis Grandiflora.....	3.50
	1000	" Nobilis	3.50
	300	" Kelyayii	3.50
	250	" " alba...	4.50
	1300	Aquilegia chrysantha.....	4.50
1000		" coerulea.....	4.50
	600	" nivea grandif...	4.50
	2000	" double mixed..	3.50
	2000	" single mixed...	3.50
500	750	Arabis albida.....	4.50
400	300	" " Fl. Pl.....	7.50
1000	1000	Armeria marit. splendens.	4.50
500	1000	" " " alba..	4.50
	1250	" Formosa Hybs...	5.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
	500	Artemisia stellariana.....	$3.50
	600	" purschiana ..	3.50
300	500	" Lactiflora ..	6.50
	300	Asclepias incarnata.....	3.50
	1500	" Tuberosa	5.50
	500	Aster Bty. Colwall (new).	7.50
	300	" White Queen.....	5.50
	500	" Tartaricus	3.50
	300	" F. W. Burbidge.	4.50
	750	" Gertrude	3.50
1000	200	" Grandiflorus ..	12.00
	450	" Laevis calliope ..	4.50
	250	" Novelty	4.50
	1250	" Nova Anglia ..	4.50
	1000	" " " Rubra .	5.50
	500	" Perry's Pink..	5.50
	500	" Perry's Favorite.	7.50
1000		" Grandiflorus	7.50
	200	" Polyphyllus	4.50
	200	" Mad. Sayneuse..	4.50
	225	" Miss Wilmot.....	4.50
	200	" Regina	4.50
	350	" Semiplenus	4.50
	200	" Snowflake	5.50
	1000	" Trinervis	3.50
	350	" Top Sawyer...	4.50
	500	" Alpinus	4.50
	500	" " superbus....	5.50
	750	" " sub. coerul.	4.50
	300	Astilbe Davidii.....	7.50
	250	" Grandis ..	7.50
300	750	Aubrictia deltoides	4.50
400	350	Auricula Alpina ..	6.50
	3000	Baptisia Australis.	2.50
	500	Bellis Perennis.....	3.50
	500	Bocconia Cordata.	3.50
	1000	Boltonia Asteroides....	3.50
	300	" Latisquama	4.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
500	750	Boltonia Latisquama Nana	$4.50
	750	Buphthalmum Salicifolium	3.50
	350	Callirhoe Involu	5.50
	350	Calimeris Incisa.....	4.50
	200	Campanula Alliariaefolia.	4.50
	500	Campanula Carpatica.....	5.50
	500	" " alba.	5.50
	250	" Grosecki	4.50
	375	" Latifolia Macran.	5.00
	1750	" Media to color.	5.00
	1500	" Calycanthema "	5.50
	500	" Persicifolia	5.50
	500	" Persicifolia alba.	5.50
	500	" Moerhemi	10.00
	500	" Rapunculus	3.50
	2350	Cassia Mariland.....	3.50
	350	Catananche Coerulea.....	4.50
	1350	Centaurea Montana 3 col..	5.50
	500	Cephalaria Tartarica.....	4.50
1500	750	Cerastium Tomentosum...	4.50
	500	Chelone Barbatus.....	4.50
	500	Chrysanthemums clumps. Hardy Pompons, 15 sorts double and single named.	5.50
	500	" Nipponicum	6.00
	750	" Inodorum	3.50
		" Maximum (See Daisy).	
	1000	Convallaxia Magalis (Lily of the Valley clumps)..	10.00
	3000	Coreopsis Lanc. Grand....	3.50
	300	" Rosea	4.50
	2500	Daisy Shasta.....	4.50
	750	" " Alaska.....	5.50
	675	" " California...	5.50
	500	" " King Edw. VII.	5.50
	1000	" " Triumph	4.50
	750	Delphinium Chinense.....	4.50
1000		" Choice Hybrids.	5.50

LAR PERENNIALS

PLANTING AT PRICES 50% LESS THAN WHOLESALE RATES

strong stock, field grown for more than one season. Void after November 1st. . Sparkill, New York. Packing at cost. Subject to prior sales. For varieties not at these prices. When less than 25 of one kind is wanted add 10% to the 100 rate.

3 in. Pots.	Field Roots.	Name.	Price per 100
	1000	Delphinium Formosum....	$5.50
	750	" " Coelestinum.	6.50
	750	Dianthus Abbotsford.....	4.50
	500	" Comtesse Knuth	7.50
	750	" Perpetual Snow..	5.50
	300	" Superbus	5.50
	750	" White Reserve...	6.50
	350	" Fettes Mount....	5.00
	650	" Alice Lee.....	5.50
	1000	" Cyclops single....	5.50
	500	" Her Majesty.....	5.50
	500	" Scoticus	5.00
	600	" Souvenir d' Sales.	5.50
	1050	" Furst Bismark...	5.50
	1500	Digitalis Foxglove.....	4.50
	500	" Grandiflora Yellow	5.50
	750	Doronicum Excelsum.....	6.50
	350	Echinops Ritro.....	4.50
	600	Eryngium Planum.....	3.50
	250	Epilobium Angust.....	3.50
500	1000	Eupatorium Coelestinum..	4.50
	600	" Ageratoides.	3.50
	1000	Euphorbia Corolata.....	3.50
	1200	Fragaria Indica.....	3.50
	300	Fuchsia Riccartoni, Hybs.	6.50
	1500	Funkia Albo-Marginata...	3.00
	500	" Coerulea	3.50
	1250	" Subcordata Grandifl.	7.50
	500	Gaillardia Grand.....	3.50
	300	Galium Molluga.....	3.50
	250	Geum Atrosanguineum....	4.50
	500	Galliga Officinalis.....	4.50
	400	Geranium Sanguineum....	4.50
	1500	Golden Glow.....	2.50
	500	Globularia Trichosantha..	4.50
	750	Gypsophila Acutifolia	4.50
	650	" Monstrosa Repens.	4.50
	1500	" Paniculata	4.50
	500	Grass Arrhenatherum.....	3.50
	1000	" Phalaris Variegat..	2.50
	1000	Helenium Aut. Rubrum..	6.50
	1000	" Aut. Superbium...	3.50
	500	" Pumilum Mag....	4.50
	700	Helianthemum Croceum..	4.50
	1500	Heliopsis Pitcheriana.....	3.50
	400	" Semi-plena	4.50
	300	" Scaber major.....	3.50
	5000	Helianti (New Vegetable)	1.00
	500	Helianthus H. S. Moon...	3.50
	500	" Maximiliani	3.50
	1000	" Mollis Grandiflorus	3.50
	1500	" Miss Melish	3.50
	300	" Soliel d. Or.....	4.50
	500	Hesperis Matronalis.....	3.50
	600	" " Alba..	3.50
	3000	Hemerocallis Flava.....	4.50
	5000	" Fulva	3.50
	500	" Gold Dust	4.50
	2000	" Kwanso Fl. Pl....	4.50
	700	" Orange Man	4.50
	650	" Sovereign	4.50
	750	" Thunbergi	5.00
	500	Henchera sanguinea.....	5.50
	750	Hibiscus Moscheutos, C. E.	4.50
	300	Hibiscus Militaris.....	4.50
	2000	Hollyhocks, Everblooming	4.50
	3000	" Allegheny	4.50
	5000	" Double, 8 Colors...	5.00
	3000	" Single, Mixed.....	4.50
	150	Hop vines, Golden Leaf..	6.50
	800	Hypericum Moserianum...	7.50
	1250	Iberis Sempervirens.....	4.50
	750	" Snow Queen	6.50
	400	" Gibraltariaca	5.50
	500	Incarvillea Del.....	6.50

3 in. Pots.	Field Roots.	Name.	Price per 100
	1400	Iris Germanica Adonis....	$3.00
	1500	" " Albino	3.00
	1500	" " Charlotte Patty	3.00
	1250	" " Chameleon	3.00
	1500	" " Fairy Queen...	3.00
	1750	" " Garrick	3.00
	1650	" " Md. de Brabant	3.00
	1700	" " Pauline	3.00
	1250	" " White Lady...	3.00
	1500	" " Pal. Dalmatica.	7.50
	1000	" " Florentina alba	3.00
	1500	" " Mad. Chereau..	3.50
	1250	" " Wm. III.....	3.50
	1250	" " Lilacaena	3.50
	5000	" " mixed all col..	1.50
	2500	" Japanese Double and single sorts, named..	6.00
	500	" Siberica	4.50
	200	" " Alba.....	5.50
	750	Lavendula Vera	4.50
	500	Lathyrus Latifolius	3.50
	500	Lathyrus Pink Beauty....	5.50
	300	" White Pearl....	7.50
	1000	Lilium Candidum	7.50
	500	" Tigrinum Splendens.	6.50
	500	" " fl. pl.	6.50
	350	Linum Perenne	4.50
	1000	Lobelia Cardinalis	4.50
	250	" Syphilitica	4.50
	300	Lychnis Alpina	4.50
	500	" Chalcedonica	5.50
	1250	" Viscaria Splendens.	5.50
	1000	Lysimachia Nummularia..	3.50
	300	Lythrum Roseum.....	3.50
450	1500	Mint. Spearmint	3.50
	1200	" Peppermint	3.50
	550	Mertensia Virginica.....	5.50
	500	Monarda Splendens.....	4.50
	250	" Cambridge Scarlet.	4.50
	250	" Violacea Superba..	4.50
	1000	" Fistulosa, alba.....	2.50
300	1250	Myosotis Palustris	3.50
	250	Nepeta Glechoma.....	3.50
	500	" Mussine	4.50
	500	Oenothera Speciosa	4.50
	100	Pennyroyal	3.50
	500	Pachysandra Terminalis..	7.50
1250		Papaver Nudicaule, 3 Col.	4.50
	5000	Paeonies chinensis, 20 best named sorts.....	12.00
	1000	Poppy orientale	6.50
	250	" Std.	9.50
	250	" Prince of Orange.	9.50
	250	" Prin. Vict. Louise	9.50
	250	" Rembranth	9.50
	250	" Trilby	9.50
	500	Pentstemon bar. Tor.....	4.50
	250	" diffusus	4.50
	150	Petasites Jap. Gigan.....	6.50
	1500	Physostegia virgin	3.50
	1250	" virgin, alba..	3.50
	1300	" Speciosa	4.50
	750	Physalis Bunyardi	5.50
	5000	Phlox decussata in 20 sorts.	5.00
	500	" Indian Chief.. ...	5.00
1000	2500	" Subulata Rosea....	3.50
3000	500	" " Lilac	3.50
	500	" " White	5.00
	500	" Amoena	4.50
	400	" divar. Canadensis..	4.50
	1000	" divar. Laphamii....	6.50
	1000	Platycodon grandfl.....	5.50
500	500	Plumbago larpentae.....	5.50
	250	Polygonatum majus.....	4.50
	1000	Polygonum Cuspidatum..	3.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
	500	Pardanthus sinensis.....	$4.50
	500	Potentilla in 3 sorts.....	5.50
	250	Primula Acaulis, var. col.	5.50
	350	Primula, elatior	5.50
	750	Primula, veris superba...	6.50
	500	" vulgaris	5.50
	450	Prunnela Webbiana	3.50
	750	Pyrethrum roseum	4.50
	500	" Uliginosum....	4.50
	450	Ranunculus rep. fl. pl....	3.50
	750	Rosemary	4.50
	200	Rudbeckia maxima.....	5.50
	1250	" Newmanii	3.50
	250	" Nitida	4.50
	1400	" purpurea	4.50
	500	" subtomentosa..	3.50
	1000	" Golden Glow..	2.50
	300	Salvia agentea	5.50
	2500	Salvia azurea grandifl.....	3.50
	500	Sage Holt's Mam.....	3.50
	350	Santolina incana.....	3.50
	200	Saponaira ocy. splend....	4.50
	450	Sedum acre.....	3.50
	300	" maximum album.	3.50
	1000	" Maxmoviczii	3.50
	350	" spectabilis	4.50
	500	" atropurpurea	5.50
	300	" spurium coccine..	3.50
	250	" sexangulare	3.50
	250	Sempervivum, hardy.....	3.50
	500	Scabiosa Jap	5.50
	500	" Giganthea	4.50
	100	Senecio clivorum.....	7.50
	300	Sidalcea candida	4.50
	500	Solidago canadensis.....	2.50
	250	Spirea palmata.....	5.50
	250	" palmata elegans...	5.50
	500	Stachys lanata.....	4.50
450	350	Stokesia cyanea	4.50
	400	Stokesia cyanea alba.....	5.50
	3000	Sweet William Auricula-flowered, double white and double crimson	3.50
	250	" Newport Pink (new).	7.50
	250	" Everblooming	4.50
	250	Tanacetum (costmary)....	3.50
	500	Tansy	3.50
	1000	Tarragon (Estragon).....	5.50
	350	Thymus lanuginosus.....	4.50
	250	" citroid aureus...	4.50
	500	" English Thyme..	3.50
	300	Tradescantia Vr.	3.50
	1500	Trillum grandfl.....	3.50
	2500	Tritoma Express	6.50
	1000	" Pfitzeri	6.50
	500	" Tucki	6.50
	250	Tunica saxifraga.....	4.50
	350	Valeriana coc. & alba.....	4.50
	250	" officinalis	4.50
	250	Veronica gent. fol. var....	4.50
	500	" incana	4.50
	1000	Veronica long. subsessilis	7.50
1000		Veronica long. subsessilis	4.50
	500	" Prostrata	4.00
	350	" Virginica	4.50
	1500	Vinca Minor.....	4.50
	500	Viola La France.....	6.50
	500	" Double English....	5.50
	250	" odorta	5.50
	500	" cornuta, colors sep.	4.50
	2500	" G. Wermig	6.50
500	600	Wallflowers, English double and single, 2 yr.....	5.50

Palisades Nurseries, Inc., SPARKILL, N. Y.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

NEW FLOWER STORES.

St. Johns, Ore. Harry K. Spalding, 4th St.

Waterbury, Ct. Saxe & Floto, 112 Bank St.

La Salle, Ill. Miss Ellen M. Stanton, Fourth St.

Fairmont, W. Va. Fleming's Flower Store, Watson Bldg.

Red Bank, N. J. Louis A. Plewka, Broad and Front Sts.

Marion, Kan. Marion Plant & Flower Co., Fred Gower, Mgr.

STEAMER DEPARTURES

Allan.

Corinthian, Montreal-London	Oct. 12
Tunisian, Montreal-Liverpool	Oct. 14
Parisian, Boston Glasgow	Oct. 17
Sicilian, Montreal-London	Oct. 19
Victorian, Montreal-Liverp'l	Oct. 21

American.

St. Paul, N. Y.-S'hampton	Oct. 17
St. Louis, N. Y.-S'hampton	Oct. 24

Atlantic Transport.

Minnewaska, N. Y.-London	Oct. 18
Minnetonka, N. Y.-London	Oct. 25

Cunard.

Laconia, Boston-Liverpool	Oct. 14
Lusitania, N. Y.-Liverpool	Oct. 15
Ascania, Montreal-S'hampton	Oct. 18
Caronia, N. Y.-Liverpool	Oct. 18

French Line.

La Savoie, N. Y.-Havre	Oct. 15
Rochambeau, N. Y.-Havre	Oct. 18
La Provence, N. Y.-Havre	Oct. 22
Caroline, N. Y. Havre	Oct. 22

Hamburg-American.

Cleveland, Boston-Hamburg	Oct. 17
Pres. Lincoln, N. Y.-Hamb'g	Oct. 18
Amerika, N. Y.-Hamburg	Oct. 23

Holland-America.

Ryndam, N. Y.-Rotterdam	Oct. 14
Rotterdam, N. Y.-Rotterdam	Oct. 21

Leyland.

Canadian, Boston-Liverpool	Oct. 18

North German Lloyd.

K'ser W. der G., N. Y.-Br'm'n	Oct. 14
Pr. Fried. Wm., N. Y.-Br'm'n	Oct. 16
Barbarossa, N. Y.-Mediter'n	Oct. 18
Kaiser W'm II, N. Y.-Bremen	Oct. 21

Red Star.

Lapland, N. Y.-Antwerp	Oct. 17
Kroonland, N. Y.-Antwerp	Oct. 24

White Star.

Celtic, N. Y.-Liverpool	Oct. 16
Teutonic, Montreal-Liverpool	Oct. 18
Cretic, Boston-Mediter'n'n	Oct. 18
Oceanic, N. Y.-S'hampton	Oct. 18
Arabic, Boston-Liverpool	Oct. 21

Montgomery, Ala. Morning View Floral Co., 20 S. Perry St.

Boston, Mass. Shepard, Norwell Co.'s, Flower Department 131 Tremont St.

St. Louis, Mo. H. P. Schaad, Iowa and Cherokee streets, W. S. Wells, 4059 Choutran avenue.

St. Louis, Mo. Fred Anthon, 955 Goodfellow Ave., Mullanphy Flower Co., 7th and Locust Sts.

New York City, N. Y. Lord & Taylor will open a flower department, the finest yet, about January 1st. W. W. Burnham, well known and well qualified will be in charge.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON—
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, CAL.
and Hotel St. Francis.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have no store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON D.C.
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.

A DENVER LEGAL CONTROVERSY.

I notice a news item in one of the trade papers referring to a controversy between The Park Floral Co. and the State Land Board and making it appear that we are largely in arrears for rent.

The correspondent is probably justified in drawing such a conclusion from articles published in the daily press, but the fact is that this is entirely a legal controversy involving the right of the Land Board to arbitrarily increase our rental under a lease which does not expire until 1926.

THE PARK FLORAL COMPANY.
By J. A. Valentine.
Denver, Colo. President.

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

IT'S YOURS
FOR THE ASKING
A Postal Request Brings to You Our
FALL SUPPLEMENT
TO OUR
"WILLING HELPER"
Full of Attractive Illustrations of ALL THAT'S NEWEST AND BEST in the Realm of Supplies.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

OPENING OF GALVIN'S NEW YORK STORE.

An interesting event of the present week in New York is the opening for business of the new establishment of Thomas F. Galvin, Inc., at Fifth avenue and 46th street. The formal opening, however, is set for October 15. The building which has been in course of erection during the summer is a six-story structure, of colonial architecture, tapestry red brick with white trimmings, and on the roof a highly ornamental curvilinear conservatory. All along the facade, on the ledge above the first story and on the line where the building meets the sidewalk a heavy line of green has been planted, composed of English ivy, euonymus, hemlocks and taxus, and the marque over the entrance on the corner has been similarly treated, making a strikingly pleasing effect. The store interior is unique and beautiful, walls and furnishings being in Wedgewood blue and white in rich design by Tiffany studios. Every feature is new and novel in flower store interior arrangement, the effort being to avoid the conventional florist store appearance. One large Tiffany vase of one variety of flowers in each window will be the only window adornment and the lighting effects are quite out of the ordinary also. All the stationery, boxes, etc., are in the same white and blue as the furnishings. The ammonia pipe system has been installed for cooling and additional storage facilities are provided in the basement, where also are workrooms, ribbon rooms, closets, etc., affording convenience for all requirements of an up-to-date florist business.

The conservatory on the roof is reached by two elevators from the store and when completed—which will probably be a month hence—will be a very attractive feature. The arrangement, which is to be designated the Jardin d' Or, will include a central pool and fountain, trellised vines, statuary, etc., with beautiful lighting effects.

W. A. Bridgeman, the manager, has been busy overseeing and arranging for the past two months. Mr. Bridgeman is thoroughly conversant with the New York trade, its needs, its sources of supply and in all respects well-equipped to carry out successfully this new enterprise under the management of a Boston house.

WEDDING NOTES.

A very elaborate decoration for a house wedding was executed by Geo. Weinhoeber, manager of Fleischman's, Chicago, last Wednesday, at the Boyd-Lyford wedding at Wheaton, Ill. The artistic blending of heather with American Beauties and maiden hair fern was the distinctive feature of the house decoration, 250 heather plants being used in honor of the nationality of the groom. They were the pink Erica globularia and the white Erica gracilis nivalis. Each guest upon arrival was presented with a small bouquet of white heather and pink roses tied with Scotch ribbon. The bride and maid-of-honor and the six bridesmaids all had white heather as a part of their bouquets.

Elaborate weddings seem to be very popular this fall and some of the retailers say they are coming along at a faster pace than usual for so early in the season. A large church wedding in Oak Park, Ill., was in the hands of J. Mangel, and the decorations were in colors arranged as to produce a rainbow effect. Seven bridesmaids carried seven-foot shepherd's crooks, wound with ribbon and flowers, which was a very pretty feature. Most places are reporting a lively wedding season already, which is certainly a promising outlook.

CHICAGO NOTES.

The American Importing Co. finds its mother of pearl letters growing in popularity and sales are increasing rapidly.

The State Fair at Springfield, Ill., always an event of importance to Chicago florists, opened auspiciously, and the floral exhibits are being staged at this writing. A fair number of the large growers are competing.

The annual contests between the city schools for the most attractive grounds and among the children for the best home gardens, vacant lot gardens and home window boxes, came to a close last week, and many cash prizes from $10 to $25 were awarded. Peter Reinberg, president of the Board of Education, has taken much interest in this contest and was warmly commended by the superintendent of schools.

Personal.

A. L. Vaughan is looking much better and seems on the way to complete recovery.

John Canger is back after a three weeks' vacation, but the bride has not materialized and he says there is no truth in the rumor that he was on a wedding trip.

Harry Rowe has moved into his new store at the northeast corner of Wabash and Washington streets, where he has a very large space on the second floor. The large ice box was used for the first time on Monday and things are fast getting into shape for a wholesale and retail business.



A PENN ADVERTISEMENT.

The following is the text of an effective advertisement which appeared in the Boston daily papers before last week.

What Flowers Do For Weary Brains.

The eyes and the brain of the busy man, no matter what kind of work he follows, become weary and need rest, just the same as any other part of the human body.

Nothing has been found in the wide world that will give weary eyes and a tired brain more immediate rest than a few moments gazing on a pretty bed of bright colored flowers. The contrast is so great from that which has occupied the organs until they were well nigh exhausted, and the effect is simply marvellous.

Flowers in the home divert the mind and rest the weary eyes of the housewife and mother.

A bouquet in the sick room aids in keeping the mind off the disease, and often starts the brain on a new channel of thought that puts the patient on the road to recovery.

Flowers in the office, or on the desk of the weary clerk or stenographer, will produce such a telling effect that by actual comparison more work is accomplished by those whose eyes and brains are rested by the presence of those gifts from nature.

Artists visit the parks and gardens to study the flowers, and their orbs are wonderfully toned up by the refreshing glimpses of the colors in nature, and no artist has ever been successful who does not study colors in the beautiful flowers.

It will pay any student, or anyone deeply engrossed in thought along any particular line which is apt to make the brain weary, to have a pot of bright flowers on the desk.—*From Sunday American, September* 14.

Choicest Blooms for Every Message That Flowers Can Convey.

PENN THE FLORIST,

43 Bromfield Street.

Telephones 838-839 Fort Hill.

Members of the Florists' Telegraph Delivery Association.

Flowers Telegraphed to All Parts of the United States.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

ROCHESTER FLOWER SHOW ABANDONED.

Instead of perfecting arrangements for a flower show that was planned for early in November, the committee of florists and others met at the Powers Hotel recently and voted to abandon the project for this year, at least. The action was a result of unexpected opposition that developed from most of co-operation the show could hardly be the downtown florists, without whose made successful.

It is said that the same retail florists were among those who, at the June meeting of the Rochester Florists' Association, voted in favor of an exhibition this year, and that their unexpected eleventh-hour change of front had led to a cancellation of plans.

Many organizations and persons were to have worked with the florists to make the 1913 show a success. The city park authorities, the State Conservation Commission, the Chamber of Commerce and such residents as Mrs. W. S. Kimball and George Eastman, whose collections of rare plants and flowers have nation-wide reputations, were to have made exhibits.

The chief objection that the downtown florists make to holding an exhibition this year is that the undertaking is at all times a bad financial risk, since the sum represented in the displays is seldom equaled and never exceeded by the receipts at the show, and that to undertake such a risk every year is not wise. They believe that once in two years is as often as the show ought to be held.

It is contended, too, that if the show is held too often popular interest in it will fag and the financial loss will be increased.

The opinion of the downtown florists did not receive general indorsement by the committee, most members of which expressed the opinion that in holding the show only once in two years the florists were defeating their chief object, the cultivation and maintenance among Rochesterians of a love for good flowers. It was pointed out that last year's show did not represent a financial loss, attesting growing popularity, and should give the florists courage to hold the show this year.

The downtown florists held to their position and the committee was forced to recommend that no show be held this year.—*Rochester, N. Y., Chronicle.*

CLEVELAND'S EXHIBITION HALL.



We show herewith exterior and unfinished interior views of the new building in which will be held the Cleveland (O.) Flower Show, Nov. 13, 14, and 15. This building is so large and so particularly well adapted for the purpose that it will undoubtedly interest many of our readers. It was built for a large garage to be used for car storage purposes. The floor space is 64,000 square feet. The part in which the show will be held is just in course of construction, having been added about a year later than the rest of the building.

Cleveland is going to have a large show. And in this building they have room enough to accommodate everyone who has an article worthy to be exhibited. The city is a center of great wealth and exhibitors who go there will find an appreciative clientage.



NEWS NOTES.

The Boston Retail Florists' Club had their first meeting and dinner on the evening of Tuesday, Oct. 7, at the American House. President Henry Penn was toastmaster. After the speaking a vaudeville entertainment followed.

The formal opening of The Orchid Store, the new floral establishment of Newsham & Scheuermann, took place on Monday, October 6th. The store, which is located at 141 Carondelet street, is one of the most beautiful in the country.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 No. Dearborn Street, Chicago

CHRYSANTHEMUMS

Dozen, $1.50-$3.00.
White, Pink and Yellow in Quantity.

CATTLEYAS

$6.00 per dozen; $40.00 per 100.
All Large Selected Flowers.

IRISH FIRE FLAME

We can furnish this novelty now in quantity.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. ***PHILADELPHIA***

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the **BOSTON**

Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago

RUSCUS AND RUSCUS WREATHS

Write for Samples and Prices

POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI	CHICAGO	BUFFALO	PITTSBURG
Roses				September 15
Am. Beauty, Fancy and Special	20.00 to	30.00 to 40.00	20.00 to 25.00	15.00 to 20.00
" " Extra	15.00 to	20.00 to 25.00	12.00 to 15.00	10.00 to 12.00
" " No. 1	10.00 to	15.00 to 20.00	8.00 to 10.00	6.00 to 8.00
" " Lower Grades	4.00 to	8.00 to 12.00	3.00 to 4.00	2.00 to 4.00
Killarney, Extra	4.00 to	5.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00
[illegible], Hillingdon, Extra	3.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary	2.00 to 3.00	3.00 to 5.00	4.00 to 6.00	..... to 4.00
Maryland, Ward, Taft, Carnot, Extra	4.00 to 6.00	6.00 to 10.00	5.00 to 6.00	6.00 to 8.00
" " " " Ordinary	..... to	3.00 to 5.00	4.00 to 5.00	..... to 4.00
Carnations, Fancy Grade	..... to	..... to 3.00	2.00 to 2.50	..... to 2.00
" Ordinary	..... to	2.00 to 3.00	1.00 to 2.00	..... to 1.50
Cattleyas	..... to	50.00 to 75.00	40.00 to 50.00	50.00 to 75.00
Lilies, Longiflorum	2.50 to 4.00	10.00 to 15.00	10.00 to 12.00	12.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	..... to 4.00	3.00 to 4.00
Orchids	12.50 to 15.00	12.00 to 25.00	15.00 to 20.00	..... to .....
Gladioli	2.00 to 4.00	..... to	..... to	1.00 to 4.00
Violets	.35 to	..... to	.60 to .75	..... to .....
Daisies	..... to	1.00 to 1.25	.75 to 1.00	..... to 1.50
Gardenias	..... to	..... to	..... to	..... to .....
Adiantum	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.25
Smilax	..... to 12.50	15.00 to 20.00	..... to 15.00	..... to 15.00
Asparagus Plumous, Strings (100)	25.00 to 40.00	25.00 to 50.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	15.00 to 25.00	25.00 to 50.00	25.00 to 50.00	40.00 to 50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON A pretty good and lively trade has been coming this way for the past ten days and a certain amount of snap was added by the somewhat bare condition of supply. All flowers of acceptable quality have been selling well and returning good results to the growers. Indications now point to a rapidly weakening market, however, and the current threatens to overflow and bring on a period of inundation, which will not take long to change the aspect. A long period of foggy weather has softened up the roses, lilies and chrysanthemums and quality is rather on the down grade for the present. Violets are coming in faster than needed and a surplus is probable for some time to come. Carnations have been selling well and they are of good quality as a rule. Not many cattleyas yet, but they are on the way. Chrysanthemums are good and daily improving as well as increasing.

BUFFALO Fall business continues good, although the early part of last week was on the quiet side. Weather conditions were not favorable but at the end of the week things cleaned up quite satisfactorily. Outdoor stock continues to come in and some good gladioli were had, also asters. Chrysanthemums are coming on rapidly and some fine violets are seen and stock in general has increased in quality. Carnations have a good demand and clean up well. Beauties are in good supply and about the only thing on the short side at this time is lilies. Weddings are in evidence and lily of the valley, orchids and white roses are having a good call.

CHICAGO Warmer weather and continued cloudiness have kept down any tendency to an over-supply of good stock, and aside from wedding orders have limited the local demand. Violets, both home-grown singles and Rhinebeck doubles have made their appearance, but after the first arrivals, customers were wary about stocking up with any quantity, and sales were slow on later shipments. The weather is too warm for long transportation and the eastern violets are not arriving in condition to keep long. Chrysanthemums are not up to the demand, and most of the blooms have the appearance of having been picked rather sooner than was desirable. A few small lavender ones made their first appearance, yellow and white still largely predominating. An occasional shipment of asters comes in, though that flower is considered as practically gone. Roses are plentiful and stock is considered good. Medium American Beauties are not sufficient to meet the demand, but this condition is common. Carnations are fast reaching a stage which delights the grower and sales are satisfactory all around. The number of weddings uses up all the lily of the valley, but orchids are hardly as much in demand as growers could wish.

CINCINNATI The past week has given us the best and firmest market we have had for some time. The Jewish holidays, combined with some rather large weddings, are the direct causes. The demand was the same as the previous week, i. e. a fair call that about took up greatly limited receipts. Roses are now the largest factor in the market. Almost every variety is in good supply while the average quality is very high. Beauties have been cleaning up on sight and on a good many occasions run short of the call for them. The supply of all other flowers offered seems to be rather limited. The cut of dahlias has been, up to this time, far below the mark of other years. Lilies are fine and prove good property. Early chrysanthemums are good.



1914 NEWS

Killarney Brilliant

The sensational new Killarney Sport which will be introduced next year. About twice as double as Single Killarney, much larger flower and of a darker brilliant shade of pink. By far the best introduction of any Rose of recent years. Booking orders now.

	Doz.	100	500	1000
Grafted	$7.50	$35.00	$150.00	$300.00
Own Root	6.00	30.00	125.00	250.00

Delivery during March.

Also Scions for grafting in 1000 to 5000 lots at $200.00 per 1000. Special prices on larger quantities. Delivery during January.

MATCHLESS

The splendid new White Carnation for 1914. Booking orders now. Deliveries can be made in December, 1913, on the early orders. $12.00 per 100, $100.00 per 1000.

We are also booking orders for ROOTED CUTTINGS of **Gloria** (the brightest pink) at $12.00 per 100, $100.00 per 1000; **Wm. Eccles, Lady Northcliffe,** and **Enchantress Supreme** for early delivery at $6.00 per 100, $50.00 per 1000; **Pink Delight,** $40.00 per 1000; other varieties, $25.00 and $30.00 per 1000

We guarantee not only the quality of our plants but their safe delivery by express.

Ribbons & Supplies Many new patterns in exclusive Ribbons. **Our new Catalogue has now** been mai d; if you did not receive your copy advise us.

Business Hours from 7.30 a.m. to 6.00 p.m.

P M QUALITY

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N.W.

BALTIMORE, Franklin and St. Paul Sts.

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON October 9			ST. LOUIS September 29			PHILA. September 29		
Roses									
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	.....	to	6.00
Killarney, Extra	5.00	to	8.00	5.00	to	8.00	4.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00
Richmond, Hillingdon, Extra	5.00	to	8.00	5.00	to	8.00	4.00	to	8.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	5.00	to	10.00	6.00	to	8.00	4.00	to	8.00
" " " " Ordinary	2.00	to	4.00	4.00	to	5.00	1.00	to	3.00
Carnations, Fancy Grade	3.00	to	4.00	1.00	to	2.00	....	to	.....
" Ordinary	1.00	to	2.00	.50	to	.75	1.00	to	2.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	.....	to	40.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.00	10.00	to	12.00
Lily of the Valley	2.00	to	4.00	3.00	to	2.00	2.00	to	4.00
Chrysanthemums	8.00	to	25.00	.....	to	.....	.....	to	.....
Gladioli	.....	to	.....	1.00	to	2.00	.....	to	.....
Violets	.15	to	.50	...	to	.....	.....	to	.....
Daises	.....	to	1.00	.....	to	.....	.....	to	.....
Gardenias	8.00	to	12.00	.....	to	.....	12.00	to	15.00
Adiantum	1.00	to	1.25	1.00	to	1.25	1.00	to	1.50
Smilax	10.00	to	15.00	15.00	to	18.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	15.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 / 609 MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 / 5893 Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 4 1913	First Half of Week beginning Oct. 6 1913
Cattleyas	30.00 to 50.00	[illegible] to 40.00
Lilies, Longiflorum	5.00 to 8.00	4.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	8.00 to 20.00	8.00 to 50.00
Violets	.15 to .50	.15 to .50
Daises	..... to .50	..... to .50
Snapdragon	.... to	..... to .....
Gardenias	6.00 to 12.00	8.00 to 20.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	6.00 to 10.00	12.00 to 20.00
Asparagus Plumosus, strings (per 100)	35.00 to 40.00	35.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Secy.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Flower Market Reports

(Continued from page 513)

NEW YORK The chrysanthemum inundation has got well under way this week, the big, unwieldy crates blocking up the wholesale stores and crowding everything else into the corners. At the same time the rose crop is on and rapidly mounting upward under the impetus of the warm weather of the past few days. There is a profusion of other things, from dahlias up to lælio-cattleyas, and prices have sagged under the weight of material which, although the retail demand has shown an encouraging activity, is far in excess of the local outlet. Already, in the chrysanthemum array are seen some flowers that would hold their own in an exhibition. In this class we saw at Smith's, Beatrice May and Chrysolora—blooms such as a few years ago we would have believed to be an impossibility for the first week in October. There are some beautiful dahlias coming in, irresistible in their purity of color and jaunty carriage, but they are overwhelmed by the great mass of trashy varieties, badly grown and thrown into the boxes "any old way." Express charges are just the same as they would be on salable goods. Lilies are plentiful. A moderate supply of violets is received and they seem to be in favor again for street wear.

PHILADELPHIA We are pleased to be able to report another week of very good business. Stock went well all along the line and there was very little surplus of any kind. Prices are good for the season and with the excellent clean-up growers ought to be well satisfied with their returns. White flowers of all kinds were probably the leaders. American Beauty roses were a little less plentiful and went up a notch in price. Russell and Johnkheer look fine, but there are not nearly enough of these for the demand. Richmond is improving right along and is in good demand. Killarney leads Maryland now—larger cuts to choose from and better flowers; Radiance also is a prime favorite. Sunburst and Mrs. Aaron Ward are the best among the half dozen yellow varieties. Carnations still very scarce. It is fortunate there are plenty of dahlias else dealers would have difficulty in getting good low-priced stock. The chrysanthemum is more in evidence this week, and of excellent quality. The chief varieties noticed include Polly Rose, Glory of Pacific, October Frost, Golden Glow, Unaka and Chrysolora. Orchids are fairly plentiful and the demand keeps pace. In cattleyas there are a good many small flowers coming in and these bring only about half or third of first size specials. Easter lilies are coming in more freely and have dropped back again to normal figures. This condition is liable to continue for some time.

ST. LOUIS This market is in a fairly good condition, stock of all kinds rather scarce except roses. The retail trade is opening up fine. Prices have gone up a little on fancy stock in everything except roses. Chrysanthemum blooms are only few and sell quickly at a good price. Carnations have been the scarce article. Violets are coming in strong daily, some very good stock being offered. Most of the outdoor truck is about over for this season. Lily of the valley and lilies should have a strong call this week as the social season opens and fall festivities are on.

WASHINGTON Business during the past week picked up somewhat although it is not yet anywhere near the standard. Many dealers are complaining of the dullness and it will take some crisp fall weather to bring about a needed change. Openings have kept the stores busy to some extent and the presentation of corsage bouquets by a local shoe house to its women patrons called for the furnishing of nearly 30,000 roses. Orchids are in better supply, but the demand for them is not at all heavy; violets are not being received in any great quantities and the quality is quite poor. Roses and carnations are better than they have been and the same may be said of chrysanthemums. Dahlias are still to be had in large quantities.

INCORPORATED.

Dayton, Ohio. The Heiss Company; Horace M. Frank; capital, $15,000.

Madison, Wis. Rentschler Floral Co., capital stock, $60,000. Incorporators, Fred and George Rentschler, Albert Meier and Jacob Kolb.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Oct. 4 1913	First Half of Week beginning Oct. 6 1913
American Beauty, Fancy and Special	12.00 to 25.00	20.00 to 25.00
" " Extra	8.00 to 10.00	10.00 to 15.00
" " No. 1	5.00 to 6.00	6.00 to 8.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	1.00 to 2.00	1.00 to 2.00
Richmond, Hillingdon, Extra	3.00 to 6.00	3.00 to 6.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 10.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 3.00	1.50 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

ST. LOUIS NOTES.

J. Westemann, late with Bourdet Floral Co., is now with the floral department at Vandevoort's.

Frank Backshadt has left his position at Vandevoort's and is now with the Grand Leader floral department.

Harry P. Schaad, late with C. Bergestermann on South Grand avenue, will open his own store at Iowa and Cherokee streets, October 15.

May Richinson, late with the Barnard Murphy Floral Co., has taken a position with the Bourdet Floral Co. and will have charge of the retail store at Magnolia and Tower Grove avenue.

W. S. Wells, late with the Missouri Botanical Garden, will open a retail store at 4059 Choutran avenue. This room was formerly the store of M. Ostertag, who closed it recently and is now with Ostertag Bros. Mr. Wells is now fixing up the place to open about the 15th of this month.

Visitors.—O. H. Amling, Maywood, Ill.; M. F. Widmer, Highland, Ill.; E. W. Guy and H. Emunds, Belleville, Ill.

Brockton, Mass. Among the losers in a fire on the night of October 3rd was Mrs. Minnie Megathlin, florist. The fire was started by the explosion of some cartridges stored in a cigar store.

ATTENTION If you wish **Dark Green and Fresh Cut EVERGREENS,** finest quality Selected Stock. Laurel Branches, 2x2x4 ft. case, $2.50 per case; Pine Plumes, $2.75 per case; Laurel Stems large bag, $1.00. Try our Color Boughs, only $2.25 per case. Once used always used. Holly Wreaths, well berried. Holly by the case and bag in season. Order in advance. Address **LOCK BOX 5, Watertown, N. J.**
Mention HORTICULTURE when writing.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 51

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

"Tel-Wood," care of Horticulture.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh. Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

IMPROVED CANNAS.
60 varieties, healthy plants, ready for delivery. Send for list. THE CONARD & JONES CO., West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Field grown Carnation Plants Enchantress, medium size, $4.00 per 100. Cash.—M. J. SCHAAF, Dansville, N. Y.

To close out. Brooklyn Field Plants: First size, $4.00; smaller, $3.00. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

FIELD GROWN CARNATION PLANTS. 4,000 Enchantress, 3,000 Queens, 1,500 Sangamo; $40.00 per 1000. This is a bargain for some one. 15 and 25 shoots on each plant. Free from all diseases. Cash with order, please. F. B. ABRAMS, Blue Point, L. I., N. Y.

"FIELD GROWN CARNATION PLANTS."
2,000 Princess Charming extra large plants, $6.00 a hundred, $50.00 a thousand
300 White Perfection, $6.00 a hundred
125 White Enchantress, extra fine plants, at six cents each.
300 Mrs. C. W. Ward, second size plants, at $3.50 a hundred
Satisfaction guaranteed or cash will refunded.
CONRAD SCHULTZ, Westerly, R. I.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash.
J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

W. W. Edgar Co., Waverly, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, New York.
For page see List of Advertisers.

For List of Advertisers See Page 491

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
Gold Letters—Mother of Pearl Letters.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FRUIT TREES

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For Field, Garden or Orchard House.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

Lock Box 5, Waretown, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

HEATING APPARATUS—Continued

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Nikoteen for Spraying Aphis Punk for Fumigating.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Cold Storage.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MAGNOLIA LEAVES

N. F. McCarthy & Co., 112 Arch St., 31 Otis St., Boston, Mass.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

MUSHROOM SPAWN
Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Olmsted Bros., Brookline, Mass.
Wanted—100 American Ash Trees.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS
Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.
For page see List of Advertisers.

PALMS, ETC.
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

PALMS—Continued
August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED
W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT
J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS
August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS
W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES
Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET
Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

Lancaster County Nurseries,
R. F. D. No. 7, Lancaster, Pa.
California Privet.
For page see List of Advertisers.

RAFFIA
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS
McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES
S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

ROSES—Strong Young Plants, for growing on. Send for list, including Excelsa, New Red Dorothy Perkins, $4.00 per 100, $30.00 per 1000.
THE CONARD & JONES COMPANY, West Grove, Penna.

RUSCUS AND RUSCUS WREATHS
Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

For List of Advertisers See Page 491

SEEDS—Continued

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

PHOENIX ROEBELENII.
We expect from our collector a fresh harvest. Price on application.
SANDER, BRUGES, BELGIUM, and 258 Broadway, New York, N. Y.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Breck-Robinson Nursery Co., Lexington, Mass.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets from field—Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BEDDING PLANTS—ROOTED CUTTINGS.

O. F. Searles, Box 288, Nashua, N. H.
For page see List of Advertisers.

CHOICE HARDY CLIMBING ROSES.

Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

DECORATIVE PLANTS.

J. M. Keller, Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

George M. Stumpp, 761 Fifth Ave., New York City.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Randall's Flower Shop, 3 Pleasant St., Worcester, Mass.
For page see List of Advertisers.

GLADIOLUS AMERICA.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

GOLD MEDAL HOLLAND BULBS.

J. J. Wilson Seed Co., Inc., 79 Orange St., Newark, N. J.
For page see List of Advertisers.

JAPANESE AND GERMAN IRIS.

Fox Hall Farm, R. F. D. 2, Norfolk, Va.
For page see List of Advertisers.

LILIUM CANDIDUM AND OTHER BULBS.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

NEW FLOWER STORE.

Thomas F. Galvin, Fifth Ave. at 46th St., New York.
For page see List of Advertisers.

PALISADES POPULAR PERENNIALS.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

ROSE KILLARNEY BRILLIANT.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.



SUCCESSFUL FLORISTS

All over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will be a attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73, which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office,
McCray Bldg., 7 & 9 West 30th St.

553 Lake Street, Kendallville, Ind.

MILLION DOLLAR GARDEN PIER, ATLANTIC CITY, N. J.



This is the enterprise in which Louis Burk is the presiding genius. The buildings along the sides are stores. The pavilion at the end is for sangerfests, exhibitions, conventions, etc. Samuel J. Irvine the gardener in charge, is seen at the left in the picture.

GARDENIA BUDS DROPPING.

Editor HORTICULTURE:

I am sending you some gardenia buds which are dropping off our plants. Would be pleased if you could let me know the cause. They are two-year-old plants. We are keeping them around 70 degress, night, and so to 85 daytime with sun heat. They have been fed about once a week with cow manure and Clay's, alternately. The plants are in a fairly healthy condition.

Yours sincerely,

N. J. P. E. H.

Editor HORTICULTURE:

Dear Sir—Your favor of the 24th inst to hand with sample buds and letter from P. E. H. We note that his plants are two years old. We prefer to plant new plants every year; we should advise discontinuing manure water and with the coming of cooler weather the trouble with the buds will disappear.

Very truly yours,

F. J. DOLANSKY.

Lynn, Mass.

WASHINGTON NOTES.

The annual floral show of the Brookland Brotherhood was this year a marked success. Some fine stock was shown and the attendance was heavier than ever before. Flower shows of this type are becoming extremely popular around the city and are being fostered by the florists as they increase the love of and the demand for cut flowers. A number of attaches of the Department of Agriculture acted as judges.

Mrs. F. H. Kramer is in New York this week, having gone to that city to meet her husband who, with other members of the band of Minute Men, have returned from a tour of Germany, France and England.

William F. Gude, and a number of other florists aided at the reception tendered by the business organization of Washington to the three newly appointed commissioners of the District of Columbia. In all about 700 merchants and business men were present. The affair was given in the large ball room of the Hotel Willard.

CLIMBING CUT WORM.

"R. R.", Mass., submits specimens of gray colored grubs doing severe damage in his greenhouses. They are the climbing cut worm for which the best medicine is a spray with arsenate of lead. Poisoned bran mash placed at the base of each plant is also an effective help.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—Stenographer for horticultural establishment ten miles from New York city. Knowledge of plant names and experience in horticultural correspondence essential. Good pay for thoroughly competent party. None other need apply. Address "C. W." care HORTICULTURE.

WANTED—A thoroughly capable, honest and industrious man for commercial greenhouse work; a man with no fancy frills but capacity to attend to business faithfully, can have a good position near Boston. Address T. B., care HORTICULTURE.

SITUATIONS WANTED

GARDENER OR FOREMAN on landscape work, grading and general construction; lawn, road, formal gardens, transplanting trees, large or small, pruning, tree surgery; practical and reliable, with executive ability. "POMONA," care of HORTICULTURE.

FOR SALE

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 238 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—One large size Morehead steam trap, in use less than 12 months; good as new; cost $225, will sell for $100. F. FALLON, Roanoke, Va.

Personal

Joseph G. Leikens, 51 E. 49th street, New York, has been discharged from bankruptcy.

A. T. Boddington is off on a Southern trip, looking after the canna, caladium and tuberose bulb crop.

Frank T. Osgood, florist, of Everett, Mass., and Miss Annie F. Crompton of Portsmouth, N. H., were married on October 2.

Charles W. Knight, recently with A. T. Boddington has accepted the position of superintendent of the W. Bayard Cutting estate at Oakdale, Long Island, N. Y.

John White, florist, of Pittsfield, Mass., has retired from active business after 40 years at his greenhouse on New West street. He has leased it to Thomas Moore, who has been in his employ for 22 years. We wish for Mr. White many years of leisurely comfort, well-earned in his long and honorable business career.

Boston visitors: Norman Scrim, Ottawa, Ont.; D. Cameron, Sander & Sons, New York.

New York visitors: L. J. Reuter, Westerly, R. I.; E. Allan Peirce, Waltham, Mass.

Cincinnati visitors: Sam Seligman and Rupert P. Hall of New York; G. C. Polloy, John C. Meyer & Co., Lowell, Mass.; and Miss Mary Lodder, Hamilton, Ohio.

DURING RECESS.

Astoria (N. Y.) Florists' Bowling Club.

Donaldson,	184	180	187	136	233	145
Kessler,	164	161	172	200	171	164
Miesem,	143	171	184	173	157	150
Jacobson,	169	137	136	157	206	120
Edmiston,	...	...	127	119	159	119
Garbe,	119	116	138	133	124	148



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FERTILIZERS

Sheep, $3.50; Bone, $4.00; Blood, $8.00; Tankage, $5.00; Acid Phosphate, $3.00; Nitrate Soda, $8.00; Sulphate Potash, $7.00; Sulphate Ammonia, $10.00; Kainit, $3.00.

Per bag of 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N. Y

WELL ROTTED HORSE MANURE
DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY
NEW YORK STABLE MANURE CO.
273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying
APHIS PUNK 40 Per Cent Strength For Fumigating
ASK YOUR DEALER FOR IT.
Guaranteed under the Insecticide Act of 1910, U. S. No. 46.
NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Nikotiana
Twelve percent Nicotine
SPRAY AND FUMIGANT

For fumigating, NIKOTIANA can be applied by painting or pouring it on steam pipes, or by vaporizing in small pans over lamps.

Fumigating with liquid prevents filling the house with smoke as do tobacco dust, stems or paper,—which is injurious to foliage and blooms. Fumigating with NIKOTIANA simply emits fumes which destroy the insects.

Compare the relative efficiency and cost of NIKOTIANA with the higher priced nicotines and you will find NIKOTIANA the most economical.

$1.50 per quart—$4.50 per gal.

For sale by seedsmen and florists supply houses.

Aphine Manufacturing Co.
Manufacturers of Agricultural Chemicals
MADISON, N. J.

APHINE — FUNGINE — VERMINE
SCALINE.

When writing to advertisers kindly mention HORTICULTURE.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP" BRAND Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

Money refunded if not satisfactory. Full directions. Terms for [illegible]
Write for [illegible]

Walter Mott's Notes by the Way

In Georgia.

Idlehour Greenhouses, Macon, Ga., are very busy, for in addition to the extensive local trade several surrounding towns are supplied by them. Americus, a town of 8000, without a greenhouse, looks as though there should be a good location for a live florist who wishes to branch out. Certainly times were never better here than now; with cotton bringing as high as 15c. the farmer has money to spend. Albany is another instance of of a live town of nearly 9,000, yet no florist. The inhabitants are flower lovers, as is shown by the well-kept gardens and tasteful displays. One of the finest sights I have seen is right on the porch of my hotel, which covers an entire block. On the north Wistaria sinensis; facing south, Antigonon leptopus with its lovedy long racemes of pink flowers backed with rich green foliage, Plumbago cœrulea, Jasminum nudiflorum, Lamarque and Marechal Niel roses. Ipomœa imperialis is a glorious picture, while cannas are now in full bloom.

Speaking with Mark W. Johnson, a pioneer seedsman of Atlanta, he remarked that never to his knowledge has there been a better demand for high-class stock. Farmers are doubling their acreage in alfalfa, which has not only yielded a phenomenal seed crop, but with many who are growing it for the first time, four crops have been cut in the year. It is practically immune to the ravages of the bug and adapted to almost every variety of climate.

English or Perennial Rye makes a fine lawn here the first year succeeded by Bermuda grass.

PUBLICATIONS RECEIVED.

Oregon State Horticultural Society.—Proceedings of the 27th Annual Meeting held at Portland, Ore., November 20-22, 1912. Devoted mostly to fruit topics, orchard management, etc. Frank W. Power is Secretary.

Illinois Horticultural Society.—Proceedings at first Summer Meeting, Anna, Ill., July 30-31, 1913. The different phases of gardening for utility and for ornament appear to be given due attention in this periodical, which is undoubtedly doing useful work.

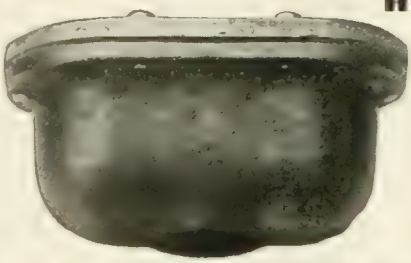
Proceedings of the American Association of Nurserymen, 1913. Secretary Hall has come forward with commendable promptness with this excellent record of the convention held June 18, 19 and 20, at Portland, Oregon, jointly with the Pacific Coast Association of Nurserymen. Portraits of the president and secretary of each organization appear as a frontispiece.

Bulletin No. 10, "Suggestions on the Preparation and Use of Spray Formulas," has just been issued by the State Board of Entomology of Tennessee. The correspondence coming to the Board continually for information on the simplest and best remedies for the control of insect pests and plant diseases is daily increasing and to facilitate replies this bulletin has been arranged.

It is a publication consisting of 24 pages with nine half-tone cuts. Special attention is given to preventives. While much may be accomplished in the control of insect pests and fungous diseases by the use of fungicides and insecticides, more attention should be given to the prevention of the introduction of crop pests by judicious legislation, to the selection of resistant plants, to the elimination of weeds and worthless plants which harbor pests or act as intermediary hosts and are often of the same family as those under cultivation, to judicious rotation of crops, and to better drainage, cultivation and fertilization.

The formulas are arranged under five heads, those for biting insects, those for piercing insects, combined insecticides and fungicides, fumigating and fungicides. Attention is given to spraying to kill weeds. General suggestions are also given in this bulletin regarding spray chemicals and necessary precautions of their use. From cover to cover it contains valuable information and should be in the hands of all the readers of this paper. Copies may be had by sending 4 cents in stamps to the State Board of Entomology, Knoxville, Tenn.

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. **Price $2.00 each, charges paid.**

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y
Makers of King Iron Frame Greenhouses

GREENHOUSES BUILDING OR CONTEMPLATED.

Denver, Col. C. F. Maler, one house.
Oneida, N. Y. Wm. Kraft, one house.
Hudson, Mich. R. J. Peterson, two houses.
Cameron, Mo. Ralph Ward, one house.
Spokane, Wash. Patrick Leavey, 100 ft. house.
Muskegon, Mich. L. Wasserman, one house.
Kirkwood, Mo. A. F. Kopp, range of houses.
Quincy, Mass. Walter M. Packard, one house.
South Portland, Me. W. E. Dyer, one house.
Avondale, Pa. Chas. B. Snyder, three houses.
Baltimore, Md. H. J. Quick, two Moninger houses.
Danbury, Ct. F. E. Mathewson, house, 40 by 200.
Fremont, Neb. Charles H. Green, house 32 by 120.
Worcester, Mass. Whittemore & Co., River St., one house.
Vancouver, B. C. Brown Bros., Port Hammond, rebuilding.
San Antonio, Tex. F. C. Albrecht, E. Commerce St., one house.
Grand Rapids, Mich. Alfred Hannah Greenhouse Co., Easton Ave.,
Baltimore, Md. A. Spath, Jr. & Son, Roland Park, additions and alterations.
Flushing, N. Y. Louis Enne, Whitestone avenue, four houses, each 300 feet long.
Wilmington, Del. Alfred I. du Pont, range of conservatories; two 24 x 85 feet each, two 12 x 18 feet each. Jas. M. Smyth, builder.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
½ inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
5 Reels, 1000 ft., " 14 c.
½ inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

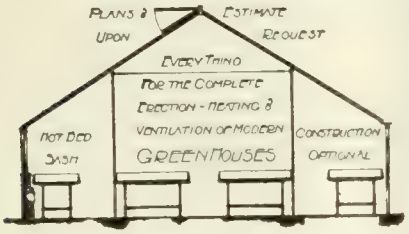
Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

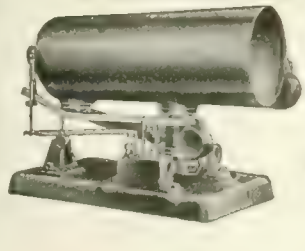
GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

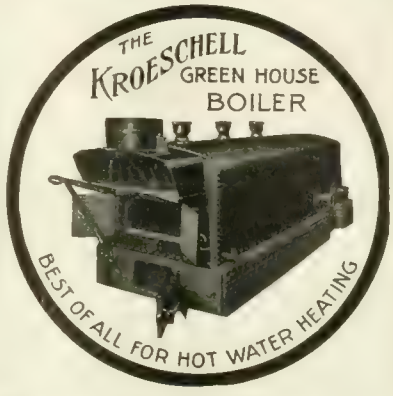
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.





CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.
We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.
It will pay you to investigate. Write us today for catalog, prices, etc.
ADVANCE CO., - Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



A Frank Statement

HAVE you ever tried to work in your office when the masons were fixing the ceiling, the carpenters repairing the floors, and your stenographer was pawing over the papers on your desk trying to find a "lost, strayed or stolen" important paper?

If you have, you know exactly what a tremendous handicap our Irvington factory has been working under all this summer. We simply had to double the size of our factory. You growers made us do it because you treated us so liberally with your orders.

To carry on our usual business; take care of this year's increase and have first one department and then another of the factory all torn up or shifted about; has been a problem which makes trying to work in your upset office, look like a circle with the rim knocked off.

Very naturally some of our orders have been a bit delayed. Most of our customers have been mighty nice about it; they recognize that it is not always possible to run on schedule time even in their own business.

From now on, however, things will run along smoothly and deliveries will be made with a promptness that will be particularly pleasing to you all. Send in your orders or have one of our men come to see you. You can't afford not to have L. & B. estimate on any greenhouse job you may have—not alone as to figures but to have the knowledge that behind those figures stands the L. & B. guarantee.

Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. OCTOBER 18, 1913 No. 16



First Prize Table Decoration
By David Boyd, at Newport Show

Devoted to the Florist, Plantsman, Landscape Gardener and Kindred Interests

Published Every Saturday At 11 Hamilton Place, Boston, Mass. Subscription, $1.00

What every Carnation Grower really needs is a **True Rose Pink Carnation.** The Philadelphia Pink is ***the one.*** When we say that

PHILADELPHIA

is the **Ideal Rose Pink Carnation** in every respect (color, productiveness, size of bloom, non-splitting calyx, length of stem, etc.), we state the plain, unvarnished truth.

But we do not want you to take our word for it. Investigate for yourself, before you place the order.

WE WANT YOU TO SEE IT GROWING

Come to Detroit at any time during the season, and see for yourself about thirty-five thousand plants, as clean, as vigorous, and as perfect as any you ever had the good fortune to have on your own place.

PHILADELPHIA is a producer superior to many and second to none. Its color is of that shade of rose pink, which sells at sight and which your average lady customer would designate as "Perfectly Lovely."

Place your order early to insure early delivery and remember that you reserve the right to cancel it if upon seeing the Philadelphia growing you conclude it is not up to your expectations.

NOTE — Any Florist Club or individual wishing sample blooms, can have them by addressing a postal to the Michigan Cut Flower Exchange, 38 Broadway, Detroit, Mich.

Prices: — $12.00 per 100; $100.00 per 1000; 2500 at $95.00 per 1000; 5000 at $90.00 per 1000

S. S. SKIDELSKY & CO.

1218 Betz Bldg., - - - - Philadelphia, Pa.

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 $50.00 per 1000

Can Ship as soon as frost comes to harden them up— about October 12

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL, Summit N. J.,

LOECHNER & CO.

JAPANESE LILIES

LILY OF THE VALLEY PIPS

PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.

Write for quotations

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.

LOCK BOX 5

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

In writing to Advertisers kindly mention Horticulture

GERANIUMS

We have 300,000 in 3-inch pots ready for immediate shipment, at $3.00 per 100, $25.00 per 1000, in the best collection of Standard Varieties, Double and Single, in the country.

Will have 200,000 in 2-inch pots ready October 1st, at $2.00 per 100, $18.50 per 1000, and an immense stock to follow.

LET US BOOK YOUR ORDER FOR FUTURE SHIPMENT

We are booking orders for Dahlias and Cannas, for the coming Fall and Winter delivery. *Send for list if interested.*

R. VINCENT, JR. & SONS CO. . . White Marsh, Maryland

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case).....	$1.25	$8.50
14 ctm. bulbs (1000 to case).....	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

Christmas Peppers

New Cluster Pepper, Celestial Peppers. Strong plants with fruit, from 4½ in. pots, $1.50 per dozen, $12.00 per 100.

Table Ferns, fine plants from 2¼-inch pots, best assortment, $3.00 per 100; $25.00 per 1000.

Primroses, Obconica, 2½-in. pots, the very best strains, strong plants, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates. Cash with order.

Frank Oechslin, 4911 Quincy St. CHICAGO

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.
Write for Quotations

LIST OF ADVERTISERS

Page

Advance Co.....555
Albany Cut Flower Ex.....546
Allen, J. K.....546
Am. Importing Co. 543
Anderson, S. A..541
Aphine Mfg. Co.553
Aschmann, G....527
Atlanta Florist Co. 544
Ayres Co., S. Bryson 539
Badgley, Reidel & Meyer.....546
Balsley, Harry..554
Barrows & Son..528
Bayersdorfer, H. & Co.....543
Bay State Nurseries 535
Bloomingdale's, 540
Bobbink & Atkins 535
Boddington, A. T. 537
Bolgiano & Son, J. 539
Boston Florist Letter Co.....544
Breck, J. & Son.539
Breck - Robinson Nurseries 534
Breitmeyer's, J. Sons 540
Bryan, Alonzo J.528
Burnett Bros....539
Burpee, W. A. & Co. 539,
California Florist 541
California Seed Growers' Asso.539

Page

Chicago Carnation Co.....544
Consumers Fertilizer Co.....553
Cooke, Geo. H...542
Childs, John Lewis 536
Clarke's, D. Sons 540
Clark, Everett B. Seed Co.....539
Conard & Jones.534
Conine, F. E. Nursery Co....534
Cowee, W. J....546
Craig, Robt. Co.536
Dards 540
Davenport, A. M.536
Dawson, H. S...528
Detroit Flower Pot Co.....554
Dorner & Sons Co. 528
Dreer, H. A..535-554
Dunlop, John H.541
Dysart, R. J....547
Eastern Nurseries 528
Edgar, W. W.Co.536
Edwards Folding Box Co.....544
Elliott's, W.Sons.539
Eppstein, Julius.541
Ernest, W. H..554
Esler, J. G.....555
Farquhar, R. & J. & Co 536
Ford, W. P.....546
Forrest, Frank H. 541
Fottler, Fiske, Rawson Co....539
Fox Hall Farm..536
Froment, H. E..546

Page

Framingham Nurseries 535
Franklin Davis Nursery Co....535
Galvin, Thos. F. 541-542
Gasser, J. M. Co.541
Goodsell, P. H..535
Grey, T. J. Co..538
Gude Bros. Co..541
Hail Association.555
Hall & Robinson 541
Hart, Geo. B....547
Heacock, Jos....536
Heinecken, Otto.539
Henderson, A....527
Hess & Swoboda.540
Hews, A. H. & Co. 554
Hill, E. G. Co..547
Hitchings & Co.555
Holland Nurseries 536
Hilfinger Bros..554
Holm & Olson..540
Hudson Carbon Co. 552
Industry Moss & Peat Co...526-547
Interstate Tobacco Co.....553
Johnson, J. Oliver 539
Johnston Bros..541
Jones, Robert Ross 555
Kasting, W. F. Co. 547
Kervan Co.....546
Keller, J. B. Sons 540
Keller, J. M. & Co. 528

Page

King Construction Co.....554
Kramer, F. H..541
Kroeschell Bros.555
Kuebler, W. H..546
Lager & Hurrell.526
Lemon Oil Co..552
Leonard Seed Co.539
Leuthy, A. & Co.528
Loechner & Co..526
MacMulkin, E...541
May & Co., L. L.541
McConnell, Alex.540
McCallum Co....547
McCarthy, N. F. Co. 544
McCray Refrigerator Co.....543
McHutchison & Co. 528
McKenna & Sons, P. 541
McKenzie, John.536
McManus, Jas...546
Metropolitan Material Co.....555
Michell's Seed House 538
Michigan Cut Flower Ex....544
Millang, Chas...546
Montreal Floral Exchange ...546
Moore, Hentz & Nash 546
Murray, Samuel.540
National Nurseryman 535
Nicotine Mfg. Co.553
Niessen, Leo Co.544
N. Y Stable Manure Co.....553
Oechslin, Frank.527
Ouwerkerk, P...536

Page

Park Floral Co..540
Palmer, W. J. & Son 540
Parshelsky Bros.555
Penn the Florist.541
Pennock - Meehan Co. 545
Pierce Co., F. O.554
Pierson, A. N..528
Pierson, F.R.Co.542
Pierson U-Bar Co. 556
Plant Food Co., 20th Century..553
Poehlmann Bros. Co. 544
Pollworth, C. C..540
Pulverized Manure Co.....553
Quaker City Machine Co.....555
Randall's Flower Shop 542
Reed & Keller..546
Reinberg, Peter.544
Rolker's 542
Rice, M. Co.....541
Robinson Co., H. M. 546
Roehrs, J. Co...526
Roland, Thomas.528
Rolker, A. & Sons 528-554
Rosery, The.....540
Sander & Son...526
Scott, John.....536
Schling, Max....541
Schwake, Chas. & Co.....527
Searles, O. F...534
Sheridan, W. F.546
Sharp, Partridge & Co.....555
Siebrecht, Geo. C.546

Page

Siggers & Siggers 554
Sim, Wm.....526
Skidelsky, S. S. & Co.....526-539
Smith, P. J.....546
Smith & Co., E. D. 535
Smith, W.& T.Co.535
Smyth, Wm. J..540
Sprague, J. H..526
Stearns, A. T. Lumber Co....555
Stumpp, Geo. M.540
Syracuse Pottery Co. 554
Totty, Chas. H..528
Thorburn, J. M. & Co.....539
Traendly & Schenck 546
Valentine, J. A..540
Van Assche, F..555
Vincent, R., Jr., & Sons Co....527
Wants, For Sale.552
Ward, R. M. & Co. 528
Weber, F. C.....541
Weeber & Don..539
Welch Bros.....544
Whittier & Co., W. B. 535
Wilson, Robt. G.540
Wilson Seed Co., J. J. .....
Wood Bros.....528
Woodrow & Marketos 546
Young, John....540
Young & Nugent.540
Zangen, O. V....539
Zinn, J. V. .....
Zvolanek, Ant. C.539

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 548, 549, 550, 551

IF YOU BUY

One Hundred or One Million

LILY BULBS

BUY THE BEST

Horseshoe Brand Giganteum Is It

6/8 .....$16.00 per case of 400
7/9 ..... 7.50 per case of 100
7/9 ..... 18.00 per case of 300
8/10..... 10.00 per case of 100
8/10..... 23.00 per case of 250
Larger Sizes Sold.

Not How Cheap But How Good

RALPH M. WARD & CO.
The Lily House
71 Murray Street, NEW YORK

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3 inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

CYCLAMEN

Best strain in existence.

4 inch $35.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

AUGUST RÖLKER & SONS

Import for the Trade only
AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

A. N. Pierson, Inc.,

CROMWELL CONN.
Bedding Plants and Roses

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm Egan and Minnie Dawson
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display ads in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Ardisia crenulata

This important and beautiful holiday plant is very often bound to be neglected in the season of the busy rush. All young seedlings should be kept growing right along and any that have filled their pots with roots should have a shift as they may require it. On the way the compost is prepared depends much of success or failure in growing these plants. A compost of fibrous loam three parts, fibrous peat and well rotted cow manure one part each, with some leaf mold and sand will be to their liking. Give them a temperature of about 55 degrees at night. Allow room between the plants and place them where they can have full sun to help color up their fruit. Do not keep them too warm in the day time; anywhere from 65 to 70 degrees will do all right. When kept too warm they are apt to force out a premature growth which is not wanted.

Care of Mignonette

With the rush of other work do not neglect the mignonette beds. We will now be coming into the cool nights which is a great help to this plant. Give the surface of the beds a good dusting of bone meal and this can be followed by a light mulch of well rotted cow manure and loam in equal parts. Do not let the plants fall all over from the want of supports. See that this has attention as soon as they may require it. Give a spraying on all bright mornings and look the beds over to find the dry spots to insure an even state of moisture. Attend to disbudding from time to time and see that the green worm is kept in check by dusting with slug shot. Give plenty of ventilation at all times.

Care of Violets

I suppose that everybody who planted a house of violets last spring for the coming season has been painstaking and thorough in the care of same. However do not think that they are in such good shape that you can afford to neglect them. The spraying overhead should not be overdone; it should not take the form of very heavy syringing now, and from now on should only be done during forenoon hours on bright days, while the wetting down of walks and dampening of approaches should also be done only on sunny days. Violets are air-loving plants, so see that they have plenty of ventilation. Unless you have a demand for very early flowers, it is much better to keep the first early buds pinched off and not let them come into bloom until you have a good demand, and then, too, the first are so inferior in quality that it is a detriment to one's reputation as a first class grower to let such go out from an establishment. Look over and thoroughly clean every crown, to make sure that no larvae of insects or black spot on leaves is carried through the house and look out closely that no aphis of any kind gets a foothold.

Cannas

Cannas should be correctly labeled before lifting. Let them have a moderate freezing, and dig them on a sunny day. Do not shake the soil from the roots. We have never failed to winter canna roots with scarcely any loss by putting them on boards beneath a carnation bench. If the ground is damp and no boards are put down they will start to grow. From this time until time to take them up to start them there should be no need of watering the carnations so copiously that there is any drip. Drip is very injurious to canna roots. That is why a place beneath a plant bench will not do. Shelves in a dry shed with a minimum temperature of 45 to 48 degrees will answer better than any other place. Look them over occasionally during the winter and where they show any signs of decaying remove the diseased roots so it won't spread through the rest.

Lorraine Begonias

Begonia Gloire de Lorraine will just now be starting to send up the growth that will make it such a charming plant at Christmas, and now is a good time to do what tying is necessary. Some use three or four small stakes and surround the plants with a strand of silkaline. Others prefer one stake in the center of the plant and the branches supported by a tie of this material. This should be done soon, so that the plant has time to assume a natural appearance. Some of these are now sufficiently well bloomed to be quite salable. If they have been grown along in a moderately warm house give them one now where a minimum of 50 degrees is kept. Stand them well up to the light. Sunlight will not harm them in the least. It is a good plan to suspend a number over the paths by wire hangers. Use care in watering and give liquid stimulants occasionally. Ventilate carefully as we are running into the shorter and darker days now.

Out Door Roses

From now on and up to the first week in November is a good time to plant outside H. P. roses. Make the soil rich, but do not place the manure so it comes directly in contact with the roots. Do not plant too deep or too shallow as one is as bad as the other. See that the soil is worked well in and around the roots and left in a firm state. On or about the 20th of November give them a liberal coating of course manure around the base of the plant, so it forms a cone of about ten inches high.

Mr Farrell's next notes will be on the following: Azaleas; Callas; Chrysanthemums; Cinerarias; Sweet Peas; Shamrocks for St. Patrick's Day.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Repotting Fruit Trees

This is a job that should now be pushed through. Soon after the leaves assume their autumn tints is the best time to repot or remove fruit trees. There is little danger of buds dropping or any other mishap if they receive ordinary care after being overhauled at this season. Where only a very limited number are grown the job will not occupy much time but where they are numbered by the hundred it is quite a consideration. It always pays to erect a temporary bench close to where the trees are plunged in preference to carrying them into the potting shed where probably head room is limited with doors and other obstacles have to be reckoned with. The less the trees are moved around the better it is for them (and also for those who are responsible for the moving of them). The moving question is often the chief cause of so many trees losing their bottom limbs. After amassing considerable weight they are not the handiest of things to move around and often we find that the bottom branches have been broken. It may be found very awkward to hold up a large tree growing in a pot or tub so that the pot or tub can be removed. This can be overcome by looping a piece of soft rope around the base of the main stem and passing a carrying bar through the other end. Let one end of the bar rest on the bench and if the rope is of proper length, by lifting on the other end of the bar the tree, pot and all, will be suspended in the air and removal will be easy. It will be found that the bar has to be passed through the center of the tree and not on one side of it or a number of branches will surely be broken.

The drainage of either pots or tubs is of the greatest importance. As no great quantity can be used it must be put in the most scientific way to pass all the water. Use broken pots for all drainage where they are to be had. If scarce use one large crock over the hole of the pot and some broken bricks on the top and sides of it. These crocks must be placed so that the hollow side is underneath. It should be understood that all pots used for this work should be sound, clean and dry as if otherwise there will be great difficulty in getting them out next fall.

The soil should be of the best half decayed loam with plenty of lime rubble and charcoal mixed into it to keep it open after being rammed so hard. Let this opening material pass through the inch seive before using. If the soil is any way poor add a little bone meal. Mix this thoroughly and see that the rough material does not go all in the same place but is evenly distributed throughout. Do not rush the trees into large pots or tubs right away but give them only one size larger pot each year or replace them in the same size that they have come out of. This is done by reducing the ball with a hand cultivator. Trees that are a mass of roots will not allow this and must have a shift. Take a little of the old soil off the top of the ball whereever it is possible and also off the sides. These hard-wooded trees cannot be potted too hard if the soil has sufficient open material in it and is fairly dry when being used. Never pot with a soil that is on the wet side. Rammers of all sizes will be needed during the potting according to the size of the shift. They must be narrow enough to pass between the ball and the side of the pot and reach right down to the bottom. Only a small amount of soil can be worked down at a time; if a large amount is attempted the chances are that the bottom will not be reached and a cavity will be left instead of having the soil completely round the ball. After potting is completed remove them to a convenient place with an ash bottom which will help to keep out the worms. A little soot sprinkled over the crocks will prevent worms from coming in for some time. Have the trees watered soon after potting and see that this is a thorough watering for any dryness at the roots from the time they are potted until they are in flower will be disastrous for the flower buds will drop very easily. During bright weather syringe the trees over each morning, say about eleven o'clock. It will be noticed that at this time of year if there is no frost there will be a heavy dew which accounts for leaving the syringing until later. Have all dry about four o'clock.

OUTDOOR FRUIT AND VEGETABLES

"The time has come," the Walrus said, "to talk of many things;
Of ships and shoes and sealing-wax, of cabbages and kings." —*Lewis Carroll*

Miscellaneous

Among the "many things" is fall spraying of all kinds of fruit trees. Spraying at this season is not given half the consideration that it deserves. It has "got something on" spring spraying in more ways than one. First, inasmuch as the rush of work is not near so pressing as in spring and therefore the job is more likely to be done and to be done more thoroughly. Secondly, because if scale (be it San Jose or oyster shell) be killed now, some of the trees' vitality will be conserved which would else have been used in keeping these parasites alive till spring.

As soon as the leaves are fallen is the time and then give two good sprayings to all fruit trees including the small fruits, such as currants and raspberries if San Jose scale is bad in your vicinity. Use one of the oil sprays or lime-sulphur as convenient, and after that follow with caustic potash which will destroy all nests of caterpillars' eggs or any other insect eggs. This caustic wash is prepared as follows: To make ten gallons of

Nephrolepis Tuberosa Plumosa



A very useful and distinct dwarf-growing fern is shown in the accompanying illustration. It is one of the recent introductions of W. A. Manda, in whose place at South Orange, N. J., the variety first appeared. Nephrolepis tuberosa is naturally a tougher and hardier species than N. exaltata from which most of our well known forms of Nephrolepis have sprung. It is a native of Japan. The form plumosa is very beautiful on account of the light moss-green color of the crests at the tip of the pinnae as contrasted with the very dark green of the rest of the frond. One other good quality is that however dense the plant may grow there is never any mildew or rot at the centre and it may be wet with impunity, without the danger of damping off at the centre as some of the close growing exaltata forms are liable to do.

the wash, dissolve one pound of caustic soda in three gallons of water, then add three-fourths lb. of pearlash (crude carbonate of soda) and to this add three-fourths lb. of dissolved soap. Dilute with water to make ten gallons. Exercise care in handling this as it is liable to burn hands or face. Use rubber gloves and spray only on a still day. I have used this wash for painting the dormant wood of grapevines in treating for mealy-bug and found it very efficacious, killing the bug and its eggs and not harming the vines.

Trenching

In British gardens this is a time-honored winter job in the vegetable garden and it is very desirable that more of it should be done in our American gardens as by this method the growing soil is deepened, its fertility is increased and its drouth-resisting qualities are greatly improved. By trenching more of the soil is exposed to the alternate action of thawing and freezing and is therefore disintegrated at a more rapid rate than would be the case if left to lie in its ordinary position. This, in addition to the deepening, is among the most important benefits gained by trenching. Owing to the severity of the winters here this operation has usually to be done during the months of October or November, so now is the time to get busy. Do not undertake too much, but lay out a piece that you might reasonably expect to finish before hard frost and then proceed with due caution.

This caution is necessary owing to the fact that (unfortunately) there is only six to ten or at the most twelve inches of good soil in the majority of gardens, and care must be taken not to attempt to go too deep at first and bring up too much of the barren subsoil. About eighteen inches will be enough for the first season of drenching, then when you get around to this patch again (in the course of a year or two) you might venture two feet and then two feet six inches, and so on till the desired three feet of good soil is ultimately obtained but this of course is the work of years of patient labor and perseverance.

The operation of trenching is so well known to most gardeners that it seems almost superfluous to describe it, but there may be some beginners who would like a little light on this method of improving garden soils. Commence at one side or end of the plot to be trenched and lay it out in straight lines by placing stakes at either end, 3 feet apart; the second stake from either outside can be set 18 inches from the first one. Then dig out every other three-foot space and lay it on either side in such manner as will best expose it to the action of the weather, digging to such depths as suggested above. Obviously this only does one-half of the plot each year so that it takes two years to trench each plot.

The foregoing is the old-fashioned method in its essential features, but if it is desirable to do the entire piece at once then I would lay it off in three-foot spaces as before and take the entire soil from the first space and wheel or cart it alongside outside of the last three foot space, then shovel the second lot of soil on to space one and set it up in an inverted V-shaped ridge. Next empty space three onto space two and so on till the last space is empty and on this is ridged up the soil taken from the first space. This means the handling of every bit of the soil on the plot. But it is the only way that a piece of ground can be treated so as to deepen its cultivated soil in one year. Doubtless double-digging accomplishes something of the same object but does not expose the soil so thoroughly as this process of ridging.

Lenox, Mass. Edwin Jenkins

HORTICULTURE

VOL. XVIII OCTOBER 18, 1913 NO. 16

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.
Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:
One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:
Per inch, 30 inches to page..... $1.00
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—First Prize Table Decoration.
NOTES ON CULTURE OF FLORISTS' STOCK—Ardisia crenulata—Care of Mignonette—Care of Violets—Cannas—Lorraine Begonias—Out Door Roses *John J. M. Farrell*..... 529
FRUIT AND VEGETABLES UNDER GLASS—Repotting Fruit Trees—*George H. Penson*..... 530
OUTDOOR FRUIT AND VEGETABLES—Miscellaneous—Trenching—*Edwin Jenkins*..... 530 531
NEPHROLEPIS TUBEROSA PLUMOSA—Illustrated 531
ROSES UNDER GLASS—Liming the Benches—The Temperature at Night—Sulphur on the Pipes—The Sod Heaps—The Partly Cloudy and Partly Sunny Days *Arthur C. Ruzicka*..... 533
CLUBS AND SOCIETIES—Exhibits at October Meeting of the Florists' Club of Washington, Illustrated 533
Gardeners' and Florists' Club of Boston—American Carnation Society—American Gladiolus Society..... 534
Nassau County Horticultural Society..... 537
Florists' Club of Washington—New York Florists' Club—Society of American Florists..... 543
Club and Society Notes..... 552
SEED TRADE—The Maule Business—New Enterprises—Crop Notes—Tariff Changes..... 538
OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 540
A Philadelphia Opening..... 542
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati..... 545
New York, Philadelphia, Providence, St. Louis, Washington..... 547
OBITUARY:
The Late Julius Roehrs..... 543
A Schustermann—Christian Binning..... 554
MISCELLANEOUS:
The Vincent Dahlia Show..... 537
Catalogues Received..... 537
News Notes..... 540-541-542
Personal..... 542
Chicago Notes..... 542
A Patent Decision..... 552
Greenhouses Building or Contemplated..... 554

Time to hustle

Five thousand dollars' worth of exhibition space sold, fifteen hundred dollars' worth of advertising for the souvenir program and over seven thousand dollars pledged on the guarantee list, is a pretty good starter for New York's big flower show for next spring. Somebody has been doing some hustling, evidently, but not much of the hustling appears on the surface and it does seem about time, as was remarked at the last Florists' Club meeting, that more noise should be made regarding this most ambitious project. With unceasing publicity from now on this affair should rival the successful "International" last spring. Enthusiasm all along the line, if it can be aroused, will accomplish much. Over-confidence and depending on a few to do it all is a dangerous habit we are all prone to fall into. Hundreds are vitally interested in this enterprise and every individual can and should do something to help keep the pot boiling for the next few months.

What shows are for

The great "show" season of the year is again with us and HORTICULTURE's news columns will bulge with lists of awards, etc., as of yore, no doubt. While these records of winners and winnings are, naturally, of much interest to the craft, yet it should be borne in mind that the competing for prizes is but a means to an end and that the primary and chief purpose of a public floral exhibition is the promotion of an interest in flowers among the people, to awaken the public appreciation of gardens and to encourage beautifying of the homes of rich and poor alike with the products of horticulture. A show which does not do this is largely a failure. See to it that not all of your efforts as exhibitors are prompted solely by the ambition to excel in prize winning. Devote a share of your material to showing visitors its use and adaptation. The layman, "his sisters and his cousins and his aunts," refuse to be enthused over the little fine points of difference between dozens or half-dozens of specimen blooms which appeal so strongly to the skilled grower, so see to it that a good amount of the premium resources is devoted to demonstration of the art of using flowers and plants as well as to demonstration of skill in producing them.

A profession with a great future

We wish to put on record a word of commendation for the sentiment and tone of the excellent paper on the gardener and his field which Mr. Ebel read before the Gardeners' and Florists' Club of Boston, last Tuesday evening. The gardener, as distinguished from the commercial florist or seedsman, is a very strong element numerically in the Boston club, more so, we think, than in any other similar organization in this country, and it was to be regretted that a most inclement night kept so many of the young gardeners from hearing Mr. Ebel's remarks as well as those made by Mr. Farquhar and others. Fidelity and forebearance are cardinal virtues in a gardener's attitude towards his employer and these traits are equally to be cultivated by those who are employed in any department of our art. Whether commercial or "private," the same qualities make for success in either. The immediate future of gardening as a profession in this country is pregnant with opportunity, and the young man who will take heed and work faithfully to perfect himself in a broad theoretical and practical knowledge of gardening in all its aspects and bearings, need have nothing to fear as to the outcome, for both honor and adequate emolument await such.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Liming the Benches

Where the last of the mulch is seen the benches will require a little lime, especially if the plants have not had a dose of it this season. Use only dry, air-slaked lime, that has been screened to make it free from all lumps. Apply just enough to whiten the benches along the surface. This will be all that will be required for the one dose. Follow with the hose, watering the plants well so that the water runs through the benches fairly good. This will insure proper watering, and will also give every rootlet a chance to secure some of the lime. It is well to have the benches a little on the dry side when the lime is applied, for then the watering which is given afterward will be felt more by the plants and they will "wake up." Do not apply another coat of mulch for at least a week after liming, for lime and manure should never be mixed.

The Temperature at Night

This can still be kept up to 64 degrees F. even though the nights are much cooler. The days are still warm, and the thermometer is bound to run up at mid-day, and too great a difference in the two temperatures is something that is not wanted. Hot water is not required as yet where steam can be used. It is very nice to have both. It is then a very simple matter to turn on a pipe or to take one off as may be needed.

Sulphur on the Pipes

Although it is advisable to apply a little sulphur to the pipes every now and then, there is danger of overdoing it, as is the case with many other greenhouse operations. Be very careful not to apply the sulphur all over the pipes. This would without doubt ruin the plants. Apply a little of it here and there along one of the pipes, about every twenty feet. Then be sure there is not more than ten pounds steam pressure on the pipes when the sulphur is applied. If the pipes are too hot the sulphur will evaporate very rapidly; in many cases it will burn, and then there will be some damage done. It is a good idea to have a little air on the houses that are subjected to this treatment, for the ventilators will carry off any surplus frames and the fumes inside will never become strong enough to do harm. Where only hot water is used for heating, sulphur evaporators will have to be resorted to. There are several of these on the market, but they must never be placed into the hands of an amateur. In fact one of the evaporators bears the inscription, "Place me not in the hands of a lunkhead." This goes to show that manufacturers of these evaporators realize the danger of over-filling the house with the fumes. Whenever using sulphur, remember that the fumes of sulphur are the greatest enemies of plant growth, and if made too strong, will kill the plants quicker than the disease.

The Sod Heaps

Are your sod heaps all put up, and ready for next spring? That is a question often asked here and there, and yet there are so many places where this important matter is left until the very last minute and then the teams, men and all, are rushed around to get the work done on time. Sometimes the sod heap will be put up on one end while the men will be chopping it down, and carrying it into the greenhouses on the other end. This may be a hurry way to do, but it is not the very best for the roses, and where the growers are none too careful the results of this haste will show in the diminished cut of roses, poorer plants, and in more cases than one, plant diseases. Put up your sod heaps in the fall, and avoid a good many troubles.

The Partly Cloudy, and Partly Sunny Days

On such days as these it will be impossible to maintain a steady temperature, and the best thing to do is to reduce the air when the temperature falls below 72 degrees and then put on more air should the houses go above 78. Usually these clouds are accompanied by a heavy wind, and it will be found very convenient to keep a little steam right on hand to turn into the houses, should it become necessary.

EXHIBIT AT FLORISTS' CLUB OF WASHINGTON.



Showing C. H. Totty's Collection of Early Flowering Chrysanthemums, also Miscellaneous Displays by Local Growers.

Clubs and Societies

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The October meeting of this club happened to strike upon one of the most stormy and disagreeable nights ever experienced at this season. Some sixty or seventy members, however, managed to show up, which was certainly a compliment to M. C. Ebel, of Madison, N. J., who was scheduled to read a paper on "The Real Gardener." Mr. Ebel was on deck all right and accompanied by his fellow-townsman, Chas. H. Totty, who took advantage of the opportunity to show the Boston people some of the beautiful early-blooming chrysanthemums which he is exploiting.

Chairman Downs reported for the committee on landscape gardening class, regretfully stating that owing to the lack of pupils and general indifference to the advantages offered by these classes the committee could not recommend the resumption of the work. Mr. Downs asked to be relieved from the responsibilities which he had carried during the past year, and his request was finally acceded to with reluctance and a standing vote of thanks.

Resolutions on the death of the late J. M. Gleason were read by the secretary.

Mr. Ebel's paper gave much pleasure to the audience. He urged the professional gardener to help clear the field of pretenders and incompetents by application, study and organization and thus elevate his profession to its rightful position before the world. He said that the great problem confronting the profession just now is how to properly bring to the knowledge of people who employ gardeners the ability of the practical gardener, the lack of such knowledge and consequent recognition causing the loss of opportunity to conscientious and capable representatives of the craft. He particularly urged that the gardener endeavor by attire, deportment and patient fidelity to foster closer confidential relationship between his employer and himself. We shall take opportunity to publish some extracts from Mr. Ebel's paper in our next issue.

J. K. M. L. Farquhar followed with some interesting remarks. He said that the only way to advance horticulture is to advance the horticulturist. Elevate the gardener and you elevate the profession. Time, patience and self-denial are needed for the foundation for a successful life work in the field of gardening. Facilities for acquiring a good horticultural education are available now in this country, of which the young men of European countries would gladly avail themselves, but cannot. If the young gardeners do not occupy the great landscape gardening field now open it will be pre-empted by the landscape architects and engineers and their great opportunity will be irrecoverably gone. William Downs talked in similar strain and instanced the indifference displayed towards the landscape gardening classes of the Gardeners' and Florists' Club as showing the fatal mistake the young men are making. Robert Cameron did not agree with the preceding speakers. He admitted that some of the craft are not interested as they should be, but declared that there is no class in existence that are studying like the gardeners and that lots of young men are aiming high, but are not adequately paid for what they do. Mr. Cameron created much hilarity by his piquant remarks on the relationship usually existing between the gardener and his employer as he sees it. Mr. Westwood spoke optimistically of the gardener's future. W. N. Craig described the recent visit of the members to the Farquhar nurseries at Dedham and a rising vote of appreciation and thanks for the invitation and the hospitality so lavishly dispensed by Messrs. Farquhar on that occasion was accorded.

The chrysanthemums exhibited by Mr. Totty were briefly described by him as having originated with J. Nonin, of Paris, France. They are practically a new type and nobody would have believed it possible, a few years ago, that such fine blooms could be produced so early. Mr. Totty having had fifty-one varieties in flower, October 1. The flowers being grown in the open, keep longer than those grown under glass. They are mostly full double and of good medium size, some disbudded specimens being quite large. Mr. Totty said that a batch planted in late July had come into flower ahead of those planted early, but the plants were not as large. Peter Fisher showed large vases of carnations Gorgeous and Alice, the latter being a lovely pink one brighter than Enchantress and several shades deeper than Pink Delight, this being the first time it has been shown.

Choice Hardy Climbing Roses

THE BEST OF RECENT INTRODUCTION

Prices per 100 F. O. B. West Grove. Strong Field Grown Stock

	1 Yr.	2 Yr.
Alice Aldrich, Rugosa		$12.00
American Pillar	$5.00	15.00
3 Year.. $35.00 and $25.00		
Dr. Van Fleet	7.00	20.00
Dorothy Perkins	5.00	10.00
Dorothy Perkins, White		10.00
Evangeline		10.00
Excelsa	7.50	12.50
Farquhar	6.00	10.00
3 Year $20.00		
Gardenia	7.50	12.50
Hiawatha	7.00	10.00
Lady Gay	7.00	10.00
May Queen		10.00
3 Year $15.00		
Minnehaha	6.00	10.00
Miss Messman		15.00
Northern Light	7.00	10.00
3 Year $12.00		
Rambler White		10.00
Ruby Queen		10.00
3 Year $15.00		
Sir Thomas Lipton, Rug.		12.00
Tausendschon		12.00
Universal Favorite	8.00	
Violet Blue	8.00	12.00
White Dorothy	10.00	

ORDER FOR FALL PLANTING

THE CONARD & JONES COMPANY

BOX H, WEST GROVE, PENNA.

In Writing Advertisers Kindly Mention HORTICULTURE.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

ROOTED CUTTINGS

SANTOLINAS, $6.00 per 1000
GERANIUMS, Nutt and Poitevine; and DOUBLE PETUNIAS; $12.00 per 1000.
HELIOTROPE, $10.00 per 1000.
ACHYRANTHES, $1.00 per 100.
ALYSSUM, 2 in., 2c. Cash, please.

O. F. SEARLES, Box 208,

NASHUA, N. H.

AMERICAN CARNATION SOCIETY.

Registrations.

By Chicago Carnation Co., Joliet, Ill. Peerless Pink. Parentage Alvina X Beacon. Color cerise pink, lighter than Lawson. Size 3 to 3½ inches. Ideal upright growth, thin wiry stems. Very early and exceptionally free. Strong calyx.

By E. H. Blameuser, Niles Centre, Ill. Joy. Parentage Victory X Red Seedling. Color scarlet. Size 2¾ inches. Strong grower. Early and very free bloomer. Strong calyx and good stem.

A. F. J. Baur, Secy.

AMERICAN GLADIOLUS SOCIETY.

The following appointments have been made by President Chamberlain:

Press and Bulletin Committee—Henry Youell, Syracuse, N. Y.; Madison Cooper, Calcium, N. Y.; L. Merton Gage, Wellesley, Mass.

Exhibition Committee—H. Youell, Syracuse, N. Y.; Clark W. Brown, Ashland, Mass.; J. L. Moore, Northboro, Mass.

Membership Committee — Arthur Cowee, Berlin, N. Y.; S. E. Spencer, Woburn, Mass.; H. E. Meader, Dover, N. H.

L. Merton Gage, Secretary.



IF YOU ARE IN NEED OF

HARDY PERENNIAL PLANTS

"Get them at Dreer's"

This Fall we are better than ever prepared to serve you with this class of stock and particularly call your attention to our *"Specials"*

JAPANESE IRIS GERMAN IRIS
HARDY PERENNIAL PHLOXES
DOUBLE HERBACEOUS PAEONIES

Send for our special circulars describing these if you have not already received copies.

Our ***Current Wholesale List*** describes all other seasonable stocks. Consult it before you place your orders.

HENRY A. DREER, Inc.

714 CHESTNUT STREET - - PHILADELPHIA, PA.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. **Subscription price $1.00 per year. Foreign subscriptions $1.50 per year.** In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL
TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

When writing to advertisers kindly mention HORTICULTURE.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Fine Plants Ready Now

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING
Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.

Mention HORTICULTURE when writing

HAVE THEM SHIPPED NOW

Before Cold Weather Comes

Fine Stock for Present Use and to Grow On for Christmas

BEGONIAS

Glory of Cincinnati—2¼ in., $16.00 per 100.
Gloire de Lorraine—2½ in., $12.00 per 100; 5 in., extra strong, $6.00 per doz.; 6 in., extra strong, $9.00 per doz.

Azaleas—All sizes, shipments just in.
Chrysanthemums—6 in. pots, $4.00 to $6.00 per doz.
Cyclamen—$2, $4, $6 and $9 per doz.
Poinsettias—4 in. pans, $6 per doz.; 6 in. pans, $7.20 per doz. and up.
Primroses—3½ in., $1.50 per doz.
Geraniums—3 in., dark red and pink, $3.00 per doz.
Palms and Roosevelt Ferns, all sizes. Cash or satisfactory reference.

W. W. EDGAR CO., Waverly, Mass.

Mention HORTICULTURE when writing

BUY YOUR Gladiolus America

FAMOUS FOR LORISTS FROM FLOWERFIELD

Acclimated--True--Healthy

Ask for Gladiolus Catalogue

JOHN LEWIS CHILDS
FLOWERFIELD, L. I., N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Mention HORTICULTURE when writing.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants; Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

JAPANESE IRIS

Also German. 10,000 clumps must be sold at once. Finest Mixed Varieties, $7.00 per 100, $50.00 per 1000. CASH.

FOX HALL FARM, R. F. D., No. 2
NORFOLK, VA.

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

	100	1000		100	1000
Lilium Candidum, 18-20 ctms., . .	$3.75	$35.00	**Lilium Candidum,** 20-22 ctms., . .	$4.25	$40.00

Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

	100	1000		100	1000
Gladstone. Enormous spikes of pure white flowers	$6.00	$55.00	**Queen of Holland.** One of the finest; grand florist's variety, white . . .	$8.00	$75.00

THE GODFREY CALLA—Also CALLA AETHIOPICA

From the Guernsey Islands (A New Source)

All in excellent condition, sound and free from disease.

The Godfrey Calla. Large bulbs, $7.50 per 100, $70.00 per 1000; First size, $6.00 per 100, $55.00 per 1000; Mailing or Second size, $5.00 per 100, $45.00 per 1000.

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

NASSAU COUNTY HORTICULTURAL SOCIETY.

The annual dahlia show of this society was held at Glen Cove, N. Y., on Oct. 8 and was a great success. Both in number and quality of exhibits displayed this year's exhibit far exceeded that of any previous year. The exhibits of Mrs. E. M. Townsend, Oyster Bay, and Sisson & Thurston, Newport, R. I., were the chief feature of the dahlia exhibits. The collections of vegetables staged by H. C. Smith, Oyster Bay, A. G. Hodenpyle, Locust Valley, and Mrs. H. L. Pratt, Glen Cove, were conceded by many to be the best seen at any of this society's exhibitions. Mrs. B. Stern's special prize of a silver cup for collection of fruit brought out a large competition. John F. Pratt was awarded 1st in this class, exhibiting a fine display of over 50 varieties. Mrs. R. J. Maxwell put up a meritorious exhibit of Helianthus Maximilliana which showed up beautiful in artificial light adding much to the beauty of the show. C. H. Totty, Madison, N. J., had on exhibition a table of early-flowering outdoor chrysanthemums which were admired by a great many. The attendance was very good and the committee in charge deserves much credit.

In the evening the regular meeting was held and arrangements gone over for the chrysanthemum show which is to be held on Oct. 28, 29.

JAMES MACDONALD, Cor. Sec.

Chamberlain & Gage, gladiolus specialists, will move from South Natick to Wellesley, Mass., about November 1st where they have leased a 40-acre farm for five years.

THE VINCENT DAHLIA SHOW.

Last week the Seventh Annual Dahlia and Canna Show and Harvest Home Festival was held at the Vincent Farm, Cowenton, Md. It is estimated that fully 10,000 persons attended during the week, coming from all over the country. The register showed visitors from California, New Orleans, and other equally distant points. A detailed account of the exhibition will appear in our next week's issue.

CATALOGUES RECEIVED.

Knight & Struck Co., New York.—Advance Offer of Sweet Peas.

Pennock-Meehan Co., Philadelphia, Pa.—Pennock-Meehan Weekly. Up-to-date price list on flowers and supplies.

Wm. Elliott & Sons, New York.—"Bulbs Guaranteed to Flower." A neat attractive catalogue, 68th Autumn Edition.

Thomas J. Grey Co., Boston, Mass.—Autumn Catalogue, 1913. A full line of bulbs, herbaceous perennials and sundries is listed. A very attractive cover.

Hjalmas Hartmann & Co., Copenhagen, Denmark, Loechner & Co., New York, American agents—Surplus offer of Danish Seeds, Crop of 1913. Send for a copy and see prices.

Jas. Vick's Sons, Rochester, N. Y.—Vick's Garden and Floral Guide, Autumn Edition. Cover shows tulips in colors. Also Vick's Wholesale Bulb Catalogue. Particularly strong on florists' forcing bulbs.

Fottler, Fiske, Rawson Co., Boston, —"Bulbs, 1913." This catalogue is not confined to bulbs but lists a large variety of plants, trees and garden material generally. A fine cluster of auratum lilies adorns the title page, with Darwin tulips on back.

Conard & Jones Co., West Grove, Pa. —New Floral Guide, Autumn 1913. Cover illustrations in colors. Also Fall Trade List of Roses, Cannas, etc. A fine illustration of "Excelsa" or "Red Dorothy Perkins" rose, is shown. Said to be a good Easter forcer.

A CORRECTION.

We are informed that we were in error in locating the University of Minnesota in St. Paul, when describing the new plant laboratory of the College of Pharmacy of the University in our issue of October 4. This great State University is situated in Minneapolis and not in her sister "twin city" St. Paul.

Adolphus Gude and Fred H. Kramer have returned from abroad and promise to give the Florists' Club of Washington an account of their travels at the next meeting. Mr. Kramer is quite enthusiastic over the way flowers are sold directly out of windows in some of the Continental cities where the stores are practically all of glass. He stated that in most of the places the prices equalled or exceeded those in vogue here with but few exceptions.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

The Maule Business.

There has been some speculation as to what was to become of the business of the late Wm. Henry Maule. We are advised that the business is to go on just as it has in the past, minus the directing genius of its founder. The executors of Mr. Maule's will, who are his brother and Edward Dungan, for many years Mr. Maule's confidential man, are going to continue the business, and the offices will soon be removed to the new Maule Building at 21st and Arch streets. While we have no authoritative statement to make, it is generally assumed that Mr. Dungan will be the managing head of the business. As he has been with Mr. Maule for nearly thirty years he will no doubt be able to continue along the same lines which have proven so eminently successful in the past. It is needless to say that our good wishes are extended to the new management.

New Enterprises.

A new seed business is to be started by John Wilk on West 33rd street, not far from the Pennsylvania Terminal, in New York City. Mr. Wilk is a young man, full of ambition and aggressiveness, and no doubt his new venture will prove a success.

The Schenectady Seed Co., successors to C. W. Witbeck, has been incorporated, and is ready for business at the old stand. As Schenectady is a town of over 60,000, it would seem that there is room here for a good, high-class seed house, and it is hoped that the Schenectady Seed Co. will measure up to this requirement.

Among the new seed concerns, which are rapidly forging to the front, is that of the Meyer-Stisser Co., of Baltimore. We hear only good reports of this house. Both Mr. Meyer and Mr. Stisser are comparatively young men and have started in business with the right idea and no doubt they will be heard from in the near future.

Crop Notes.

There is little new that we can say regarding crops. It is pretty well established that peas are generally a fairly abundant crop this year, and nearly all of the leading growers will have some surpluses to dispose of. We are informed that there are quite a number who have, as it were, broken into the business, without either capital or experience. These concerns are offering stocks at comparatively low prices, but would-be purchasers should be careful to ascertain the pedigree of any peas they may buy. No doubt a few of them may have stocks of excellent quality, but beyond question there will be a considerable quantity of inferior stuff offered, which should not be used by any seedsman with a reputation to lose.

MICHELL'S INTERMEDIATE GIANT FLOWERING

Sweet Pea -- Blanche Ferry

A novelty of extraordinary value to the florist. Seed sown in October will commence flowering March 15th and continue through April and May. Three to four extra large blooms are produced on long stems from 16 to 20 inches in length. The culture of this variety is the same as all other Winter Flowering sorts, except that it should be sown during the month of October. Our seed is original greenhouse grown stock. Per oz., $1.00; $3.50 per ¼ lb.; per lb., $12.00.

MICHELL'S GIANT CYCLAMEN SEED

New Crop. Quality Unsurpassed

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

SEND FOR OUR WHOLESALE CATALOGUE IF YOU HAVEN'T RECEIVED A COPY.

HENRY F. MICHELL COMPANY, 518 Market St. Philadelphia, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

Several English, and one or two New Zealand houses are quoting peas at very low prices. It is well to point out one fact, however, with reference to the New Zealand peas. These are not harvested until about the first of the year, and cannot be delivered in this country until about April, consequently they arrive too late for the current season's trade, and must be carried over until the next season. It may be taken for granted that any peas offered for immediate delivery are of last season's crop.

We recently stated that beans would be a very short crop, basing our statement on information from several of the leading growers. We have recently seen some quotations and estimates from other growers somewhat in conflict with the earlier statements. We still believe, however, that most varieties of seed beans will be short, and the fact that most growers are not willing to quote prices, and that the leading wholesalers will not, indicates quite clearly that our former estimate of the situation is about right. It seems pretty well understood that all varieties of dwarf limas will be short, particularly the Fordhook and the Burpee's Improved. It is doubtful if over 50 per cent. of a crop is realized from the former, and quite possibly it will be under this figure.

We have nothing new to offer in the way of news as to the seed corn crop, but rather inclined to the opinion that the reports of damage by the early frosts of last month were more or less exaggerated. Undoubtedly there will be seed corn enough to meet all reasonable requirements. While prices are likely to rule somewhat higher than last season, they are not going to reach any alarming figures.

Helena, Mont.—The Montana Seed Growers' Association was organized here last week, and the following officers elected: President, F. C. Sumner, Park County; vice-president, Truman Ames, Miles City; directors, L. D. O'Donnell, Billings; P. Carney, Waterloo; Joe Nash, Clyde Park; Charles Wentworth, Lewiston.

TARIFF CHANGES.

The rates under old and new tariffs on various seeds, trees, etc., are given below:

	Old Rate	New Rate
Barley	30c per bu	15c per bu.
Beans and lentils not specially provided	45c " "	25c " "
Beet (except sugar beet)	4c " lb.	3c " lb.
Broom corn	$30 per ton	Free
Cabbage seed	8c per lb.	6c per lb.
Collard seed	8c " "	6c " "
Carrot seed	8c " "	6c " "
Corn salad	4c " "	3c " "
Corn or maize	15c " "	Free
Egg plant	20c " "	10c per lb.
Hyacinth bulbs	50c " 1000	$2.50 " 1000
Kale	8c " lb.	6c " lb.
Kohlrabi	8c " "	6c " "
Oats	15c " bu.	6c " bu.
Parsnips	4c " lb.	3c " lb.
Parsley	4c " "	3c " "
Pepper seeds	20c " "	10c " "
Peri seeds	40c " bu.	10c " bu.
Potatoes	25c " "	Free
Radish	4c " lb.	3c per lb.
Rutabaga seed	4c " "	3 " "
Soya beans	15c " bu.	Free
Turnip	4c " lb.	3c per lb.
Wheat	25c " bu.	Free
Seeds of all kinds not specially provided for	10c " lb.	5c per lb.

Stocks, cuttings and seedlings of pear, apple, quince and St. Julien plum, three years old or less, reduced from $2 to $1 per 1,000.

Stocks, cuttings and seedlings of all fruit and ornamental trees, deciduous and evergreen trees, shrubs, plants and vines commonly known as nursery stock, reduced from 25 per cent. ad valorem to 15 per cent. ad valorem.

Evergreen seedlings, four years old and under, free.

Clinton, Wis.—The L. L. Olds Seed Company are erecting a splendid new concrete building. It will be finished on or before November 1st. It is to be one of the most complete seed establishments in the country.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

BUY

Gold Medal Holland Bulbs

Our Specialty. Finer Quality Does Not Exist

We Offer for Immediate Planting Choice Selection of Peonies and Japan Iris, all home-grown stock.

Exclusive Agents for Garden Gazing Globes.

Write for Catalogue

J. J. WILSON SEED CO., Inc.

79 Orange St., Newark, N. J.

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas: Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

Place Your Order Now For

AYRES' WINTER FLOWERING

SWEET PEA SEED

For Fall Delivery

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

Sunnyslope Independence, Mo.

REMOVAL NOTICE

We are Now Permanently Located At Our New Address

98 Chambers Street, N. Y.

Between Broadway and Church Street

Telephone 6138 Barclay

BURNETT BROS., - Seedsmen

FOTTLER FISKE RAWSON CO., BOSTON

LILIES

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

PANSY SEED

Specially Blended for Florists Use.

TRADE PKTS. $1.00.

Wm. Elliott & Sons

42 Vesey St., New York

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

When writing to advertisers kindly mention HORTICULTURE.

ROSES, CARNATIONS, CHRYSANTHEMUM PLANTS, SEEDS, BULBS

Send us your wants. We will take care of them. We supply stock at market price.

Catalogue for the asking

S. S. SKIDELSKY & CO.

1215 Betz Bldg. Philadelphia.

MUSHROOM SPAWN.

New Shipments Just Received

English Finest Quality....$ 8.00 per 100 lbs.

American Pure Culture...$12.00 per 100 lbs.

WEEBER & DON

Seed Merchants, 114 Chambers St., New York

FREESIA

	100	1000
REFRACTA ALBA, ⅜ to ½ in. diameter	$0.60	$4.00

LILIUM HARRISII

	100	1000
5 to 7 in. circumference	$5.00	$40.00
6 to 7 in. "	6.00	55.00
7 to 9 in. "	9.00	85.00
ROMAN HYACINTHS, 12-15	$3.50	$32.00
NARCISSUS, Paper White Grandiflora, 13-15	1.25	8.00

HAVE YOU OUR FLORISTS' CATALOG?

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T 16) NEW YORK, N. Y.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place

NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)

Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)

Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)

High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

The Everett B. Clark Seed Co.

GROWERS FOR THE TRADE

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin MILFORD, CONN.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

ONION SETS

226-230 W. KINZIE STREET, CHICAGO

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

Of Interest to Retail Florists

Carthage, Mo.—Frank Finn, Boyd Building.

River Forest, Ill.—W. A. Littlewood, 362 N. Park avenue.

Charleston, W. Va.—Winter Floral Co., Morrison Building.

Waterbury, Conn.—Leary, The Florist, 134 South Main street.

Brooklyn, N. Y.—Trepel & Bershad, Bedford and Gates avenues.

Parkersburg, W. Va.—Charles P. Dudley, Union Trust Building.

Chicago, Ill.—Rienzi Flower Shop, Evanston avenue (now Broadway).

STEAMER DEPARTURES

Allan.
Sicilian, Montreal-London....Oct. 19
Victorian, Montreal-Liverp'l..Oct. 21
Ionian, Montreal-London.....Oct. 26
Corsican, Montreal-Liverpool..Oct. 28
Numidian, Boston-Glasgow....Oct. 31

American.
St. Louis, N. Y.-S'hampton...Oct. 24
Philad'phia, N. Y.-S'hampton..Oct. 31

Atlantic Transport.
Minnetonka, N. Y. London....Oct. 25

Cunard.
Mauretania, N. Y.-Liverpool...Oct. 22
Ivernia, N. Y.-Mediterranean..Oct. 23
Ausonia, Montreal-S'hampton..Oct. 25

French Line.
La Provence, N. Y.-Havre.....Oct. 22
Chicago, N. Y.-Havre.....Oct. 25
France, N. Y.-Havre.....Oct. 29

Hamburg-American.
Amerika, N. Y.-Hamburg.....Oct. 23
Pennsylvania, N. Y.-Hamb'g..Oct. 25
Cincinnati, Boston-Hamburg..Oct. 28

Holland-America.
Rotterdam, N. Y.-Rotterdam..Oct. 21
Potsdam, N. Y.-Rotterdam....Oct. 28

Leyland.
Bohemian, Boston Liverpool...Oct. 25

North German Lloyd.
Kr. Wilhelm II, N. Y.-Br'm'n.Oct. 21
Gr. Kurfuerst, N. Y.-Bremen..Oct. 23
Kronp. Wilhelm, N. Y.-B'm'n.Oct. 28
Fr. der Grosse, N. Y.-Bremen..Oct. 30

Red Star.
Kroonland, N. Y.-Antwerp....Oct. 24
Zeeland, N. Y.-Antwerp.....Oct. 31

White Star.
Arabic, Boston-Liverpool.....Oct. 21
Cedric, N. Y.-Liverpool.....Oct. 23
Laurentic, Montreal-Liverp'l..Oct. 25
Olympic, N. Y.-S'hampton.....Oct. 25
Baltic, N. Y.-Liverpool.....Oct. 30

Chicago, Ill.—Garfield Flower Shop, 210 E. 55th street; H. C. Rowe, 105 N. Wabash avenue.

NEWS NOTES.

Winchendon, Mass.—W. W. Rhuland, florist; liabilities, $5,135.54; assets, $200.

Manchester, N. H.—The F. F. Osgood Company's branch floral store at 204 Main street, has been closed out. The store has been in operation less than two months and the volume of business did not warrant its continuance.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St.. West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344 - 346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO FLORISTS 1214 F ST., N.W. WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

S. J. Reuter & Son, of Westerly, R. I., have sold to Chas. H. Totty, Madison, N. J., one-half interest in their new crimson rose. It is the intention of Messrs. Reuter and Totty to disseminate this novelty in 1915.

The Flower Room which Frank Gaul opened about a year ago on Thirteenth street below Market street, Philadelphia, has not proved a financial success and has been closed. The landlord had the best of it—location and accommodation and all things considered.

Waterbury, Conn.—James Leary, formerly with George T. Ryan, and his brother Daniel, have formed a partnership and will in the next few days open a flower shop at 134 South Main street, opposite Scovill street. Both young men have lived in Waterbury all their lives and have a host of friends who wish them success in their new undertaking. The new concern will be known as Leary the Florist.

IT'S YOURS
FOR THE ASKING
A Postal Request Brings to You Our
FALL SUPPLEMENT
TO OUR
"WILLING HELPER"
Full of Attractive Illustrations of ALL THAT'S NEWEST AND BEST in the Realm of Supplies.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

A PHILADELPHIA OPENING.

Charles Henry Fox had an opening at his new store the "Sign of the Rose," in Philadelphia, on Monday evening, October 13. Fully 100 representatives of the trade, growers, commission dealers and retailers were present and enjoyed the hospitality which was bountifully handed out. The establishment is very handsome. In the rear of the spacious store is an up-to-date conservatory filled with plants,. Also a cold storage room, workroom, room for the reception and caring for stock, and a spacious garage where plants, etc., may be loaded on autos and unloaded under cover, the latter opening out on to a back street. The establishment throughout is a credit to Mr. Fox and to the Philadelphia florist trade. After inspection lunch was served, many prominent men in the florist trade being seated at the tables. Music and speeches followed, the keynote being good wishes and compliments for the Sign of the Rose and its enterprising proprietor.

PERSONAL.

R. Vincent, Jr., White Marsh, Md., made a hurried visit to New York, Thursday, Oct. 9, returning the same day.

J. Harrison Dick, formerly editor of The Journal of Horticulture, London, has arrived in New York, where, we understand, he is to take a similar position with one of our contemporaries.

Chas. McCrea and Chas. Murphy are the two Cincinnati florists who are running for office this fall. The former is a candidate for the office of commissioner of the city of Newport, while the latter is running for township treasurer of Delhi Township.

David Bisset, son of Peter Bisset, of the Department of Agriculture, Washington, was run down by an automobile last week, sustaining a compound fracture of the left leg which necessitated his removal to the Emergency Hospital. Mr. Bisset, who is but about 22 years of age, is an employee of the plant bureau of the Department.

Cincinnati visitors—Joe Hill, Richmond, Ind., and L. H. Thomas, Troy, Ohio.

Philadelphia visitors—Arthur and J. D. Cockcroft, Northport, N. Y.; John Paul, Cumberland, Md.; W. C. Langbridge, Cambridge, N. Y.; W. A. Sutherland of Leonard Seed Co., Chicago, Ill.; R. T. Brown, Queens, N. Y.; C. L. Roberts and son, Anacostia, D. C.

Boston visitors—Julius Roehrs, Rutherford, N. J.; C. H. Totty and M. C. Ebel, Madison, N. J.; L. J. Reuter, Westerly, R. I.; H. Huebner, Groton, Mass.; A. L. Dorward, Newport, R. I.; F. R. S. Balfour, London, England.



CHICAGO NOTES.

Frank Oechslin's first carload of azaleas from Belgium arrived this week. The plants are fine and came in excellent condition.

Paul Blome, North Side florist, has returned from an extended trip to California. He will also spend a portion of the winter in that state. His friends are pleased to learn that he has regained his health.

An important real estate transfer was prominently mentioned in the Sunday Record-Herald of October 12. The property of the Foley Manufacturing Company was acquired by Arthur Gourley, a member of the company, for $146,250, subject to an incumbrance of $55,000. A new organization of the company is expected in the near future.

The opening of new retail stores still continues and this week adds two more. The Rienzi Flower Shop, with G. C. Steffins, proprietor, is on Evanston avenue (now Broadway), corner Diversey Parkway. W. A. Littlewood, 362 North Park avenue, River Forest, being in a neighborhood where stores are excluded, has built a small greenhouse and will engage in the florists' business.

The renaming of many of Chicago's streets, which has just gone into effect, changes the addresses of several florists. Evanston avenue becomes Broadway, Fortieth avenue is now Crawford street, etc. The greatest number of changes are in the numbered "avenues," which run north and south, and have been so easily confused with the east and west numbered "streets." The changes from numbers to names will greatly aid the unacquainted as well as be a help in the prompt delivery of mail, which, by a slight mistake in the address—as avenue for street—or omitting the "north" or "south" has sent mail miles from its destination and caused much delay.

Visitors: J. M. Hoffman, La Porte, Ind.; Paul Palos, Little Rock, Ark.; Mrs. M. Irby, Memphis, Tenn.; Mrs. J. W. Turberville, Memphis, Tenn.; V. A. Cowgill, Salem, Ohio.

The new store of Wm. L. Trumpore, at Stapleton, Staten Island, is already an assured success. Mr. Trumpore was for many years with J. H. Small & Sons, New York.

NEWS NOTES.

South Lyon, Mich.—Walter E. Hastings succeeds George Lunn in the florist trade.

New Britain, Ct.—R. B. Viets has purchased the greenhouse business of Mrs. Elizabeth K. Eggert.

Joseph Kelley, for many years at the head of the landscape department of R. Wallace & Co., Colchester, Eng., and who recently made a short visit to this country, has started in business in Colchester as a landscape gardener and garden expert, on his own behalf.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies - the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

FLORISTS' CLUB OF WASHINGTON.

See Illustration, page 533.

A flower show of no small magnitude in connection with the October meeting of the Florists' Club of Washington proved a pleasing surprise to those who attended and were treated to a display unequalled here since the last public flower show given by the club.

Included in the exhibit were some twenty-five or more varieties of chrysanthemums, sixteen of which had been sent by C. H. Totty, of Madison, N. J. These were of the early outdoor class and were recently imported by him from Paris, France. The varieties Mme. A. Nonin, LaAisne, H. H. Crane and A. Barham were awarded a certificate of merit and the committee presented a resolution thanking Mr. Totty for his kindness in bringing the flowers before the Club and commending their beauty and commercial worth. Many native varieties were also shown and included in the display were roses, violets, orchids, lily of the valley, dahlias, snapdragon, cosmos, etc. Special mention was made of Mrs. George Shawyer, Radiance, Milady, Kaiserin and Mrs. Charles Russell roses. The Radiance roses exhibited by Mr. Gude, as well as his American Beauties, cannot be beaten.

I. Rosnosky, of Philadelphia, and M. C. Ebel, of Madison, N. J., were present and each made a few remarks. Mr. Hammer told of the trip taken by the sixty or more members of the club and their friends to White Marsh, Md., on the occasion of the annual dahlia show of Richard Vincent Jr. & Sons' Company. There were only about two members present during Mr. Hammer's recital who had missed the trip and these looked quite envious. He declared the show to have been one of the most successful he had ever attended and his remarks were concurred in by the others. Deep regret was expressed on the death of Mr. Constant Ponnet which occurred some few weeks ago, and a letter expressing the sympathy of the club was ordered sent to his son.

NEW YORK FLORISTS' CLUB.

The meeting of the New York Florists' Club on Monday evening, October 13, was a veritable "rouser," 140 members being present. Eleven new names were handed in for membership. Secretary Young made quite a detailed report of progress of the business connected with the approaching spring show, stating that space amounting to over $5000 is already sold and advertising space in the official program placed to the amount of $1500. The guarantee fund subscriptions to date total over $7100. Enthusiastic speeches on behalf of the show were made by many, including President Siebrecht, A. H. Scheider, C. H. Totty, Geo. E. M. Stumpp, Wm. Duckham, M. C. Ebel and W. A. Manda. Resolutions were presented by Patrick O'Mara on the death of Julius Roehrs and by W. F. Sheridan on the death of John B. Nugent, Sr. W. A. Manda invited the members to a field day at South Orange, N. J., and same was accepted for Friday, 17th, train leaving Hoboken at 1.03 P. M. The November meeting will be Ladies' Night. W. A. Manda made a very varied and striking exhibition of new plants, on which the committee reported as follows:

Polypodium Mandaianum, silver medal; Anthericum Mandaianum, highly commended; Nephrolepis tuberosa plumosa, highly commended; Polystichum varicum, hon. mention; Dracaena Rothiana, Manda's golden privet and Adiantum Farleyense Gloriosa, vote of thanks; dahlia Mrs. A. I. DuPont, dahlia No. 5 and dahlia Gertrude, preliminary certificates; dahlia No. 16, dahlia No. 100, dahlia No. 12, vase of Leucanthemum nipponicum and Asparagus elongatus, vote of thanks.

Other exhibitors and awards were as follows:

Chas. H. Totty, Madison, N. J., new French chrysanthemums, Cranford Yellow and Chaldon, highly commended.

Bergenfield Nurseries, Bergenfield, N. J., collection of dahlias and hardy chrysanthemums, highly commended; special mention for collection of exhibition dahlias.

James Bell, vase of Dahlia Delice; A. N. Kinney, unnamed specimen geranium; Chas. W. Weber, seedling dahlias, votes of thanks.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Henry Krinke & Son, of St. Paul, Minn., submit for registration, the fern described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the Secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Name—"Pteris Krinkeii."

Description—The fern is a 1911 seedling sport from Pteris adiantoides. The fronds are much more divided and longer. It hangs over the pot in the usual size plants and it grows much quicker than the parent kind.

JOHN YOUNG, Secy.

THE LATE JULIUS ROEHRS.

The following resolutions were adopted by a rising vote at the meeting of the New York Florists' Club, October 13, 1913:

WHEREAS, God in His infinite wisdom has taken to Himself our friend and fellow member, Julius Roehrs, and

WHEREAS, Following the rule of custom, and the dictates of hearts strengthened by association with him in life, we take occasion, assembled as the New York Florists' Club, to give expression to the sense of loss which overspreads us, to record in our proceedings the solemn sorrow we feel and to send a united message of sympathy and condolence to his bereaved family.

It is meet and proper that in doing these we should also give testimony to the value of the deceased to us as a fellow member. Wise in council, energetic in action, cheerful in companionship, he endeared himself to us all and in his passing we feel that we have lost one of the staunchest supporters and most valuable members of our organization.

It is but just to his memory also to record that his enterprise was inspiring, his successful culture of the finest in horticulture raised the standard for the benefit of all. He was a tower of strength to us in many ways and the place he occupied in horticulture will, we believe, remain vacant for many a day.

RESOLVED, That we tender to the family of the deceased our deepest sympathy in their loss.

RESOLVED, That a copy of these resolutions be sent to the family and that they be spread in full upon the minutes of this meeting.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
669 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 No. Dearborn Street, Chicago

CHRYSANTHEMUMS

Dozen, $1.50-$3.00.
White, Pink and Yellow in Quantity.

CATTLEYAS

$6.00 per dozen; $40.00 per 100.
All Large Selected Flowers.

IRISH FIRE FLAME

We can furnish this novelty now in quantity.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago

RUSCUS AND RUSCUS WREATHS

Write for Samples and Prices

POEHLMANN BROS. CO., 72-74 E Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 13			CHICAGO October 13			BUFFALO October 13			PITTSBURG October 13		
Am. Beauty, Fancy and Special	20.00	to	25.00	.00	to	50.00	20.00	to	25.00	15.00	to	20.00
" " Extra	15.00	to	20.00	2.00	to	50.00	10.00	to	15.00	10.00	to	15.00
" " No. 1	10.00	to	15.00	15.00	to	20.00	7.00	to	10.00	6.00	to	8.00
" " Lower Grades	4.00	to	8.00	5.00	to	12.00	3.00	to	4.00	2.00	to	4.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" Ordinary	2.00	to	4.00	3.00	to	5.00	3.00	to	5.00	2.00	to	5.00
Richmond, Hillingdon, Extra	4.00	to	6.00	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" " Ordinary	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00	2.00	to	4.00
Maryland, Ward, Taft, Carnot, Extra	6.00	to	10.00	6.00	to	10.00	5.00	to	6.00	6.00	to	8.00
" " " Ordinary	.....	to	....	3.00	to	5.00	3.00	to	5.00	2.00	to	4.00
Carnations, Fancy Grade	.....	to	2.50	.....	to	3.00	2.00	to	2.50	2.00	to	3.00
" Ordinary	...	to	1.50	2.00	to	3.00	1.00	to	2.00	.....	to	1.50
Cattleyas	.....	to	50.00	40.00	to	50.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	12.50	to	15.00	10.00	to	12.00	10.00	to	12.00	10.00	to	12.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	.....	to	4.00	2.00	to	4.00
Chrysanthemums	12.50	to	15.00	12.00	to	25.00	15.00	to	20.00	12.00	to	25.00
Violets	.35	to	.50	.25	to	.50	.50	to	.60	.25	to	.60
Daises	.....	to	....	1.00	to	1.25	.75	to	1.00	.....	to	1.50
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.....	to	1.00	1.00	to	1.50	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	.	to	15.00
Asparagus Plumosus, Strings (100)	25.00	to	50.00	5.00	to	50.00	40.00	to	60.00	40.00	to	50.00
" " & Sprengeri (100 bchs)	15.00	to	25.00	25.00	to	50.00	25.00	to	50.00	40.00	to	50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA
COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager,

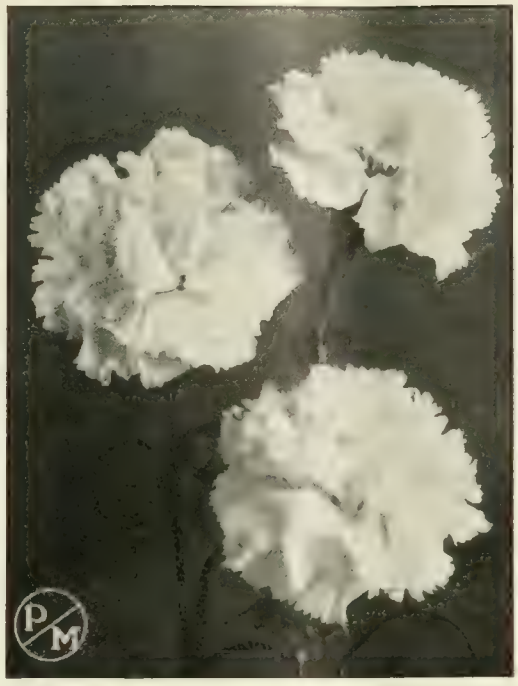
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly Mention HORTICULTURE.



CARNATIONS

After more than a month of the greatest scarcity in Carnations we have had for several years, we are glad to say we are now able to take care of orders, large or small, of the choicest quality, at **$3.00 per hundred**, with a good medium quality at **$2.00 per 100**, or **500, our selection, some of each grade at $2.00 per 100.**

CATTLEYAS: Special, $5.00 per dozen; $40.00 per 100; Extra $4.00 per dozen; $25.00 per 100; First $2.50 per dozen; $15.00 per 100.

The third grade quoted are perfect flowers but small size. Special prices in large quantities.

VALLEY: Special, $4.00 per 100; Extra, $3.00 per 100.
GARDENIAS: Special, $3.00 per doz.
CHRYSANTHEMUMS: $1.00, $1.50, $2.00, $2.50, and $3.00 per dozen.

HEADQUARTERS FOR GREENS.

WILD SMILAX, $5.00 per case.
BRONZE GALAX, $2.00 per 1000.
GREEN GALAX, $1.00 per 1000, $7.50 per 10,000.
GREEN LEUCOTHOE, new crop, $1.00 per 100; $7.50 per 1000.
AUTUMN FOLIAGE, 50c. per bunch.
GREEN SHEET MOSS, $3.50 per bag.
ASPARAGUS STRINGS, 50c. each.
ASPARAGUS and SPRENGERI, bunches, 50c. each.
SMILAX, 20c. per string. Cut Hemlock, $2.50 per bundle.
HARDY DAGGER FERNS best quality. Large fronds, $1.50 per 1000.
SPHAGNUM MOSS, burlapped, 10 bbl. bales, each, $3.75; 5 bale lots, $3.50 each; 10 bale lots, $3.25 each.

RIBBONS AND SUPPLIES: Many new patterns in exclusive Ribbons. If you did not receive a copy of our new Catalogue, advise us and we will mail same promptly

Business hours from 7.30 a. m. to 6.00 p. m.

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St.
NEW YORK 117 West 28th St.
WASHINGTON 1216 H. St., N.W.
BALTIMORE, Franklin and St. Paul Sts.

Flower Market Reports

BOSTON Things are not as rosy in this market as would be wished. The weather has been very unpropitious for the retail trade, nearly two weeks of drizzle, fog and downpour with but one or two bright days intervening, having been experienced. Notwithstanding this the receipts of flowers have been mounting up although it cannot be said that quality has kept pace with quantity. Chrysanthemums are rapidly increasing and the influx has hardly begun yet. A depressing effect on other stock is unavoidable and prices have sagged along the line, except in a way on roses, which have remained stationary for the past two weeks. Carnations have weakened considerably, however. Yet it must be admitted that taking into consideration the very large amount of material coming in under very unfavorable conditions the trade has been clearing it up pretty well.

BUFFALO A period of ten days of real hot weather has been broken up by a heavy wind storm and rain and it came on Saturday causing 50 per cent of the Saturday sales to fall off. Saturday was looked forward to by the wholesalers as a clean-up day but such did not materialize. Roses suffered, also other stock, it being an impossibility to keep stock in saleable condition. Shipments, especially of Killarney, Richmond and other roses and dahlias were most affected. The latter were in heavy supply and the market was overloaded. Carnations have come on heavier and the receipts on everything else have increased. Asters and other outdoor stuff are still received and are not worth the handling. Chrysanthemums are coming on more plentiful each day. The trade is looking for cold weather and it will be welcomed when it does come.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON October 16			ST. LOUIS October 10			PHILA. October 13		
Roses									
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	3.00	to	8.00	.....	to	6.00
Killarney, Extra	5.00	to	8.00	4.00	to	6.00	4.00	to	8.00
" Ordinary	2.00	to	4.00	1.00	to	2.00	2.00	to	3.00
Richmond, Hillingdon, Extra	5.00	to	8.00	4.00	to	6.00	4.00	to	8.00
" " Ordinary	2.00	to	4.00	1.00	to	2.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	5.00	to	10.00	4.00	to	8.00	4.00	to	10.00
" " " " Ordinary	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Carnations, Fancy Grade	2.00	to	2.50	1.00	to	2.00	2.00	to	4.00
" Ordinary	1.00	to	1.50	.50	to	.75	1.00	to	2.00
Cattleyas	30.00	to	40.00	40.00	to	50.00	15.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	10.00	8.00	to	12.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Chrysanthemums	8.00	to	25.00	8.00	to	15.00	8.00	to	25.00
Violets	.15	to	.40	.15	to	.40	.20	to	.75
Daises	.....	to	1.00	.....	to	.....	.....	to	1.00
Gardenias	10.00	to	20.00	.....	to	.....	15.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	10.00	to	15.00	15.00	to	18.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	15.00	to	35.00	35.00	to	50.00

CHICAGO The advance of fall makes little change in market conditions, which are fairly satisfactory. No special demand for large quantities of flowers has occurred during the past week but a steady, if not heavy shipping trade and a medium local demand has used up the stock day by day. The chrysanthemum holds the post of honor now and the first varieties are on the wane. October Frost is being succeeded by Yellow Frost, Golden Glow and Smith's Advance will soon be gone, and Chrysalora, Unaka, Touset, Virginia Poehlmann, Pacific Supreme and Monrovia are here. The demand is at all times equal to the supply and not one chrysanthemum goes to waste. Indications are that carnations will not be really abundant till after All Saints' Day, for which growers are now anticipating a good demand. American Beauties are now of excellent quality and the cuts were so large last week that prices did not hold to quotations on the extra lengths. The greatest demand as usual is for the medium lengths. All kinds of roses are coming in quantity and there appears demand enough to use them all. Miscellaneous flowers are narrowing down. Violets are arriving in better condition. Lilies are more plentiful. The new varieties of roses are attracting more attention as the fall advances.

CINCINNATI The demand last week was not up to that of preceding weeks. It was only on Monday and Saturday that there was satisfactory clearances. During the intervening days stock crowded considerably and some finally went to the ash barrel. The unsatisfactory condition of the market is due both to a slower demand and the large final influx of outdoor stock. With heavier receipts the market for the outdoor blooms has eased so considerably that only the best brings a fair figure. Quite a few of

(Continued on p.)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 609 MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 5893 Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4168 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 11 1913	First Half of Week beginning Oct. 13 1913
Cattleyas	20.00 to 40.00	15.00 to 40.00
Lilies, Longiflorum	5.00 to 6.00	4.00 to 6.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	8.00 to 40.00	6.00 to 35.00
Violets	.15 to .50	.15 to .50
Daises	..... to .50	..... to .50
Snapdragon	..... to	..... to .....
Gardenias	8.00 to 20.00	12.00 to 20.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 15.00
Asparagus Plumosus, strings (per 100)	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V.-P. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special attention to Shipping Trade

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Flower Market Reports

(Continued from page 545)

the smaller grades of dahlias find but a limited number of sales and those only at ordinary prices. The good ones sell well. Cosmos is selling well but there is entirely too much of it to give the market for it any kind of a firm tone. Some very creditable asters are still coming into town. All roses are in heavy supply and of a general high average of quality. American Beauties are in a strong supply but are not having as good a call as they had the preceding two weeks. The first of the double violets from New York have made their appearance. Single ones from local growers are offered. Lily of the valley and lilies are rather scarce and clean up easily. Chrysanthemums are coming in a little stronger. They have been selling well at good prices. Smilax is still scarce but the supply of other greens is large.

NEW YORK Market conditions are very disheartening to growers and dealers this week. Chrysanthemums are very plentiful, good flowers of such varieties as Monrovia, Unaka Kalb, etc., selling at $1.00 a dozen, the poorer grades being difficult to sell at any price. Some of the high class specimen blooms still bring $3.00 and $4.00 per doz., but buyers at these figures are few. Violets are in great abundance as are also cattleyas. Lily of the valley maintains its popularity and price well. Of roses, Mrs. Shawyer seems to be the best seller, bringing $10.00 per 100 for choice blooms. Beauties are not over plentiful. There is plenty of southern grown asparagus which holds the price on this commodity down.

PHILADELPHIA Monday and Tuesday of last week were pretty fair but the balance was on the "punky" order. The warm weather was favorable to outdoor flowers which aggravated the situation, coming as it did just when roses, carnations and chrysanthemums were becoming more plentiful and of finer quality. There were millions of dahlias and carloads of cosmos. The prayer now is: "Oh for a frost." But for all that—and nevertheless and notwithstanding—the volume of business for the season compares very favorably with other years.

PROVIDENCE The retail market has taken on much activity during the past week, a big jump being reported in all kinds of work. The opening of the fall social season together with the approach of cool weather has been mainly responsible for the sharp demand for flowers of all kinds. Violets are, however, a glut and are moving slowly at ridiculously low figures. Some alarm is felt among the dealers because of the abundance of violets at this time, it being the opinion that the crop will be short and out of season before the holidays. Chrysanthemums are more plentiful and the quality is improving. Carnations are coming better, in greater numbers and the stems are longer. Roses of all kinds are fairly good with a good call.

ST. LOUIS To cover the wholesale market correctly for the past week is a hard task. Stock is coming in in such abundance that the prices had to suffer greatly. Roses were a glut all week and in large lots sold as low as $7.50 per 1,000, and good stock at that. On top of these came large consignments of fancy dahlias. Cosmos and violets went begging and prices had to come down in order to dispose of them. Chrysanthemums are coming in and they are many. Carnations are holding up well as they are not any too many. In greens the market has anything the trade wants and plenty of it except smilax, which is scarce.

WASHINGTON Business still continues quiet although the prospects for better conditions are good. The days have been warm and cloudy, producing considerable mildew, and have been very depressing. Dahlias are now at their best and chrysanthemums are beginning to appear with longer stems and better foliage. Carnations, too, have improved materially and roses are coming in nicely. Asters have moved off the market and their place is being taken by carnations. Cattleyas are quite plentiful and reasonably cheap. The giving of corsage bouquets to all women customers by a local shoe concern proved quite a popular feature. The bouquets contained about five roses each and so great was the demand for these that in all 25,000 flowers were required. Flowers as gifts are becoming very popular here, many of the stores presenting them to both men and women visitors on the occasion of anniversaries, openings, etc.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Oct. 11 1913	First Half of Week beginning Oct. 13 1913
American Beauty, Fancy and Special	12.00 to 25.00	15.00 to 25.00
" " Extra	8.00 to 10.00	8.00 to 12.00
" " No. 1	5.00 to 6.00	5.00 to 6.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	1.00 to 2.00	1.00 to 2.00
Richmond, Hillingdon, Extra	3.00 to 6.00	3.00 to 6.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 10.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 3.00	1.50 to 2.50
" Ordinary	1.00 to 1.50	1.00 to 1.50

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

ATTENTION If you wish Dark Green and Fresh Cut EVERGREENS, finest quality Selected Stock. Laurel Branches, 2x2x4 ft. case, $2.50 per case; Pine Plumes, $2.75 per case; Laurel Stems large bag, $1.00. Try our Cedar Boughs, only $2.25 per case. Once used always used. Holly Wreaths, well berried. Holly by the case and bag in season. Order in advance. Address LOCK BOX 5, Watertown, N. J.
Mention HORTICULTURE when writing

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York,
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh. Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

O. F. Searles, Box 288, Nashua, N. H.
Bedding Plants. Rooted Cuttings.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

BOILERS—Continued

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Lilium Candidum and Other Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

J. J. Wilson Seed Co., Inc., 79 Orange St., Newark, N. J.
Gold Medal Holland Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Field grown Carnation Plants Enchantress, medium size, $4.00 per 100. Cash.—M. J. SCHAAF, Dansville, N. Y.

"FIELD GROWN CARNATION PLANTS."
2,000 Princess Charming, extra large plants, $6.00 a hundred $50.00 a thousand.
300 White Perfection, $6.00 a hundred.
125 White Enchantress, extra fine plants, at six cents each.
300 Mrs. C. W. Ward, second size plants, at $3.50 a hundred.
Satisfaction guaranteed; cash with order.
CONRAD SCHULTZ, Westerly, R. I.

CARNATIONS—Continued

To close out. Brooklyn Field Plants: First size, $4.00; smaller, $3.00. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash.
J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland. Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

W. W. Edgar Co., Waverly, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller, Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

ENGINEERS AND LANDSCAPE GARDENERS

Fairfield Landscape & Nurseries Co., Terminal Bldg., 41st St. and Park Ave., New York City.

For List of Advertisers See Page 527

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St.,
Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St.,
Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.,
Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co.,
Detroit, Mich.
For page see List of Advertisers.

FRUIT TREES

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Endfield, Middlesex, England.
For Field, Garden or Orchard House.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
Gladiolus America.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

S. Jacobs & Sons, Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

Lock Box 5, Waretown, N. J.
For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

HEATING APPARATUS—Continued

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
Palisades Popular Perennials.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

IRIS

Fox Hall Farm, R. F. D. 2, Norfolk, Va.
Japanese and German
For page see List of Advertisers.

JERUSALEM CHERRIES

JERUSALEM CHERRIES. Fra Diavolo, from 4-in. and 5-in. pots, loaded with berries and blossoms. $6.00 and $7.00 per 100. MONADNOCK GREENHOUSES, Keene, N. H.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St.,
New York.
Cold Storage.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MUSHROOM SPAWN

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

Manual of the Trees of North, America, by C. S. Sargent, mailed to your addrses for $6.00 by Horticulture Publishing Co., 11 Hamilton Place, Boston.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Stuart Low & Co., Royal Nurseries, Bush Hill Park, Enfield, Middlesex, Eng.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

PALMS—Continued

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED

W. Elliott & Sons, 42 Vesey St., N. Y.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POINSETTIAS

W. W. Edgar Co., Waverley, Mass.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIMULAS

PRIMULAS Malacoides, 3 in., ready for 4 in. $5.00 per 100. Chinese Primroses 2 in., Benary's best strain, $2.00 per 100. MONADNOCK GREENHOUSES, Keene, N. H.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa
For page see List of Advertisers

ROSES

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Conard & Jones Co., West Grove, Pa.
Choice Hardy Climbing Roses.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

For List of Advertisers See Page 527

SEEDS—Continued

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Minor—Perfectly hardy; Evergreen Vine, useful for growing under trees where grass will not grow, for binding banks to prevent washing; strong transplanted plants, which may be divided, $3.00 per 100, $25.00 per 1000; rooted layers, $1.50 per 100, $10.00 per 1000. E. Y. TEAS, CENTERVILLE, IND.

VIOLETS

Violets from field—Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS
Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORISTS
Philadelphia—Continued

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CARNATIONS.

S. S. Pennock-Meehan Co., 1608-1620 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

CARNATION PHILADELPHIA.

S. S. Skidelsky & Co., 1218 Betz Bldg., Philadelphia, Pa
For page see List of Advertisers.

DAVIDGE'S SPECIAL PHOSPHORUS.

Hudson Carbon Co., Ballston Spa, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Reuter's, New London and Norwich, Conn., and Westerly, R. I.
For page see List of Advertisers.

JAPANESE AND CHINESE LILIES; HOHMANN'S LILY OF THE VALLEY; FRENCH AND DUTCH BULBS AND HOLLAND AND BELGIUM PLANTS.

Chas. Schwake & Co., 90-92 West Broadway, New York City.
For page see List of Advertisers.

MAK-GRO, ODORLESS PLANT FOOD.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
For page see List of Advertisers.

WHOLESALE FLORIST.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE.

As Required by the Act of Congress, August 24, 1912.

Publisher—Horticulture Publishing Co., Boston. Editor and Business Manager—Wm. J. Stewart. List of stockholders holding one per cent. or more of total amount of stock—W. W. Castle, N. F. Perkins, Wm. J. Stewart, J. K. M. L. Farquhar, P. Welch, David Welch, of Boston, Mass.; Estate of F. R. Mathison, Waltham, Mass.; J. H. Morton, Mattapan, Mass.; Thos. Young, Jr., W. F. Sheridan, F. H. Traendly, Chas. Schenck, John I. Raynor, New York City; W. F. Kasting, Buffalo, N. Y.; A. S. Burns, Elmhurst, N. Y.; H. H. Battles, S. S. Pennock, Philadelphia, Pa.; John Burton, Chestnut Hill, Philadelphia, Pa.; Estate of Carl Jurgens, Newport, R. I.; Philip Breitmeyer, Detroit, Mich.; Fred Lautenschlager, Chicago, Ill. Bondholders, mortgagees and other security holders—none. Borrowed money on Notes, none.

Sworn to and subscribed before Notary Public by WM. J. STEWART, Business Manager.

Boston, Oct. 10, 1913.

In writing to Advertisers kindly mention Horticulture

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

HELP WANTED

WANTED—Stenographer for horticultural establishment ten miles from New York city. Knowledge of plant names and experience in horticultural correspondence essential. Good pay for thoroughly competent party. None other need apply. Address "G. W.," care HORTICULTURE.

WANTED—A thoroughly capable, honest and industrious man for commercial greenhouse work. A man with no fancy frills but capacity to attend to business faithfully, can have a good position near Boston. Address T. B, care HORTICULTURE.

SITUATIONS WANTED

WANTED—Position as superintendent of private estate or public grounds. Highest references as to ability and character. Address "G. S.," care HORTICULTURE.

SITUATION WANTED—As head gardener. Thorough knowledge of outside work and under glass. German, not married. Good references. Address "H. F.," care HORTICULTURE.

FOR SALE

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet, 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 738 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—One large size Morehead steam trap, in use less than 12 months; good as new; cost $225, will sell for $100 F. FALLON, Roanoke, Va.

FOR SALE—At a bargain 8 acres of land, finest soil in Illinois; located on section line on northwest side of Chicago; city water, convenient to two R. R. stations, stone road to property; for particulars on this and other property suitable for greenhouse plants, address PETER PEARSON, 5732 Gunnison St., Chicago.

MISCELLANEOUS

WANTED—Five or six Greenhouses with 5 to 10 acres of land [illegible] miles of Boston. State terms in first letter. Address S. S., care HORTICULTURE.

A PATENT DECISION.

The Quaker Machine Co., J. A. Evans, manager, has secured perpetual injunction prohibiting the manufacture or sale by others than the Quaker Machine Co., of the double-acting ventilator arm on which they have a patent. The text of the decision follows:

In the District Court of the United States for the District of Indiana.

Decree.

John A. Evans, Complainant vs. James E. Jones, Defendant, in Equity No. 11,166.

This cause having come on to be heard, upon the pleadings and proofs filed on behalf of both parties, and after hearing counsel for the complainant and counsel for defendant, it is hereby ordered, adjudged and decreed as follows:

1. That Letters Patent of the United States issued to John A. Evans, of Richmond, Indiana, as the assignee of Newton R. Evans, on the 20th day of March, 1906, and numbered 815,914, for improvements in window Lifters are good and valid in law, particularly as to claims 1, 4, 5 and 6 thereof and that the said John A. Evans, the complainant herein, is the owner of said Letters Patent.

2. That the defendant James E. Jones, has infringed upon the said Letters Patent, and particularly claims 1, 4, 5 and 6 thereof.

3. That the complainant do recover of the defendant the profits, gains and advantages which the said defendant has derived, received or made since March 20, 1906, by reason of said infringement, and that the complainant do recover of the said defendant [illegible] damages which the complainant has sustained since said date, or shall sustain by reason of said infringement by the said defendant.

4. And it is hereby referred to as Master of this Court, who is hereby appointed to take and state the account of said gains, profits and advantages, and assess such damages and to report thereon with all convenient speed; and the defendant, his agents, officers, attorneys, clerks, servants, workmen and all in privity with him are hereby directed and required to attend before said Master from time to time as required, and to produce before him such books, papers, vouchers, and documents, and to submit to such oral examination as the Master may require.

5. That a perpetual injunction issue out of and under the seal of this Court, directed to the said defendant, and his agents, servants, workmen, attorneys, clerks, and any and all persons acting by, through or under the authority of or in privity with, the defendant, enjoining and restraining them, and each of them, from directly or indirectly making or causing to be made, using or causing to be used, or vending to others to be used, in any manner, and devices containing, embodying or employing the invention covered by said Letters Patent and particularly claimed in claims 1, 4, 5 and 6 thereof, or from infringing upon or violating the said Letters Patent in any way whatsoever.

6. That the complainant do recover of the defendant his costs and disbursements of this suit to be taxed and that the question of increase of damages and all other questions be reserved until the coming of the Master's report.

At the meeting of the Southampton (N. Y.) Horticultural Society on October 4, Chas. H. Totty sent specimens of very fine early outdoor chrysanthemums, flowers measuring nearly five inches in diameter and very handsome. John T. Withers is to give a talk this week (Oct. 16). Secy. D. T. Wells says that the July exhibition of this society made a clear profit of about $250.

Davidge's Special Phosphorus
$2.00 per 100 lbs.
A safe fertilizer for Flowers and Plants
HUDSON CARBON CO., BALLSTON SPA, N. Y.

CLUB AND SOCIETY NOTES.

The executive committee of the American Rose Society held a session on Monday, October 13, at the office of Traendly & Schenck, New York city.

The Eighteenth Annual Flower Show of the Morris County Gardeners' and Florists' Society will be held in Assembly Hall, Madison, N. J., on Tuesday and Wednesday, October 28th and 29th.

The Cincinnati Florists' Society met last Monday evening. The refreshments were with the compliments of Messrs. Jas. Allen, Alex. Ostendarp and Ed Schumann. Fred Backmeiers' invitation to hold the next meeting at his home was accepted by the Society.

The Worcester County (Mass.) Horticultural Society held its annual exhibition and dinner on October 9th in Horticultural Hall, Worcester, Mass. Ross Bros., with an exhibit of grasses from Germany, Madaus with palms, etc., dahlias from Mrs. E. Warren were among the principal exhibits.

The regular meeting of the Chicago Florists' Club occurred on October 9th. The report of the committee appointed to confer with a similar committee, representing the Cook County Florists' Association regarding better relations between the two clubs, was read and accepted and the committee empowered to act. It was decided to have a Ladies' Night during the coming flower show. T. Waters, C. W. Johnson and Ed. Enders were appointed to make arrangements for a buffet luncheon and dance. An instructive paper was read by W. Magill on "Fertilizers."

At the meeting of the New Bedford Horticultural Society, on October 6, W. F. Turner read a paper on Flowers for a small city back yard. N. B. Shaw was awarded a certificate for a seedling dahlia named Edith Lewis.

Besides the regular medal and ribbon classes in the schedule, special prizes are offered as follows for the chrysanthemum show, which takes place Nov. 3 and 4:

A. Cup by David F. Roy for best 12 distinct chrysanthemum blooms.

B. Cup by T. J. Grey Company for best 18 blooms, distinct varieties.

C. Cup by R. & J. Farquhar & Co., best three vases, six flowers to a vase, one variety in a vase, long stem, amateur.

Best collection of hardy chrysanthemums, one spray in a vase; best three vases; best three vases, three sprays in a vase; one vase in variety; by Chase Bros.; prizes to be given in stock from their nurseries.

The Committee on Nominations of the Massachusetts Horticultural Society has posted its list of candidates for the various offices of the society for the year 1914, to be voted upon at the annual meeting, November 15. The list is as follows:

President—John K. M. L. Farquhar.
Vice-President (for two years)—Walter Hunnewell.
Trustee (for one year)—F. Lothrop Ames.
Trustees (for three years)—E. B. Dane, S. M. Weld, W. Wheeler, E. B. Wilder.
Delegate to State Board of Agriculture—N. T. Kidder.
Nominating Committee—H. A. Clark, Philip Dexter, A. H. Fewkes, F. S. Moseley, J. L. Smith.

In accordance with the By-laws of the society two weeks are allowed for any further nominations should any be desired.

WM. P. RICH, Secretary.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

MAK-GRO ODORLESS PLANT FOOD

For Florists and General Greenhouse Work

A Scientific, Improved, Concentrated, Quick Acting, Complete Fertilizer made in ***Non-Acid Granular Form*** from the highest grade materials obtainable.

Especially adapted to

GREENHOUSE WORK

Flowers, Fruits and Vegetables

Special Formulas for General and Special Greenhouse Crops; prepared by men who have made a life study of Greenhouse work—not only in this country but abroad.

The services and advice of our experts is at your disposal on all matter pertaining to your Greenhouse problems.

MAK-GRO ODORLESS PLANT FOOD

Is put up in various sized packages, and sold in lots of from

ONE POUND TO CARLOADS

The one pound cans and small packages make a splendid side line for Florists having their own stores.

Write us for exceptional dealers proposition.

CONSUMERS FERTILIZER CO. Long Acre Building NEW YORK CITY

FUNGINE

An Infallible remedy for mildew on roses, chrysanthemum and carnation rust, bench rot and various other blights which affect flowers, fruits and vegetables.

It is applied by spraying the foliage. Fungine being readily soluble in water, contains no sediment and unlike Bordeaux and lime and sulphur, will not stain but cleanses the foliage.

Fungine is an excellent fungicide for greenhouse plants.

75c. Quart—$3.00 Gallon—10 Gallon Keg, $15.00

VERMINE

A soil sterilizer and vermicide for cut, eel, wire worms, root maggots and all vermin working under the soil. It is applied by thoroughly soaking the ground with one part Vermine to 400 parts water and is not injurious to vegetation. An excellent sterilizer, more economical and less laborious than sterilizing with steam and hot water pipes.

1.00 Quart—$5.00 Gallon—5 Gallon Keg, $12.50

FOR SALE BY SEEDSMEN.

Manufactured by

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

NIKOTIANA—APHINE—SCALINE

Mention HORTICULTURE when writing

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP"

BRAND

Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.

1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Agents. Write for prices.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK 40 Per Cent Strength For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

When writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Middletown, Ct. — E. Kent, alterations.

Joplin, Mo. — Lincoln Park, house 20 x 50.

Darby, Pa.—J. W. Colflesh's Sons, two houses.

Asbury Park, N. J.—P. A. Petersen, house 21 x 100.

Wallace, Idaho. — Emil Tomsche, vegetable house.

Escanaba, Mich. — C. Peterson & Sons, addition 20 x 100.

New Haven, Ind.—New Haven Floral Co., two houses each 27 x 150.

Newport, R. I.—Mrs. Annie E. Eshelman, Point Palm, conservatory.

St. Louis, Mo.—C. H. Howard, Chamberlin & Belt avenues, two houses.

Sheboygan, Wis.—J. E. Matthewson, two houses each 27 x 150, one 12 x 70.

Newport, R. I. — Duncan McLean, Bellevue avenue, Swamhurst, addition 8 x 46.

Elmhurst, N. Y. — John Meisem, range of houses. Weathered Company has the contract.

Providence, R. I. — Sweeney Bros., 446 Cranston street, alterations; Westminster Greenhouses, 1205 Westminster street, additions and alterations.

OBITUARY.

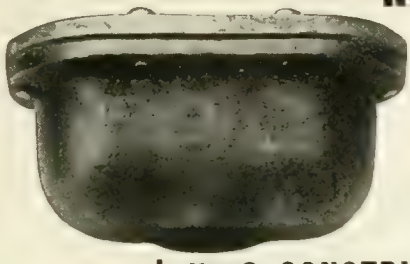
A. Schustermann.

A. Schustermann, who conducted a florist store at Eighth street and Second avenue, New York city, died suddenly on Sunday, October 12.

Christian Binning.

Christian Binning, superintendent for the George H. Mellen Company, Springfield, O., died at his home Monday, October 6th, after an illness of only two weeks. He was a native of Germany but came to this country when a boy. His wife and three sons survive him.

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. Price $2.00 each, charges paid.

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y
Makers of King Iron Frame Greenhouses

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

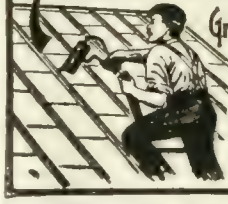
THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.

Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



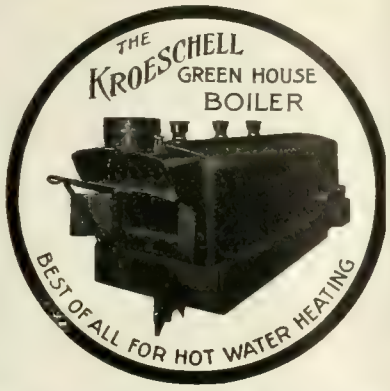
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS
SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

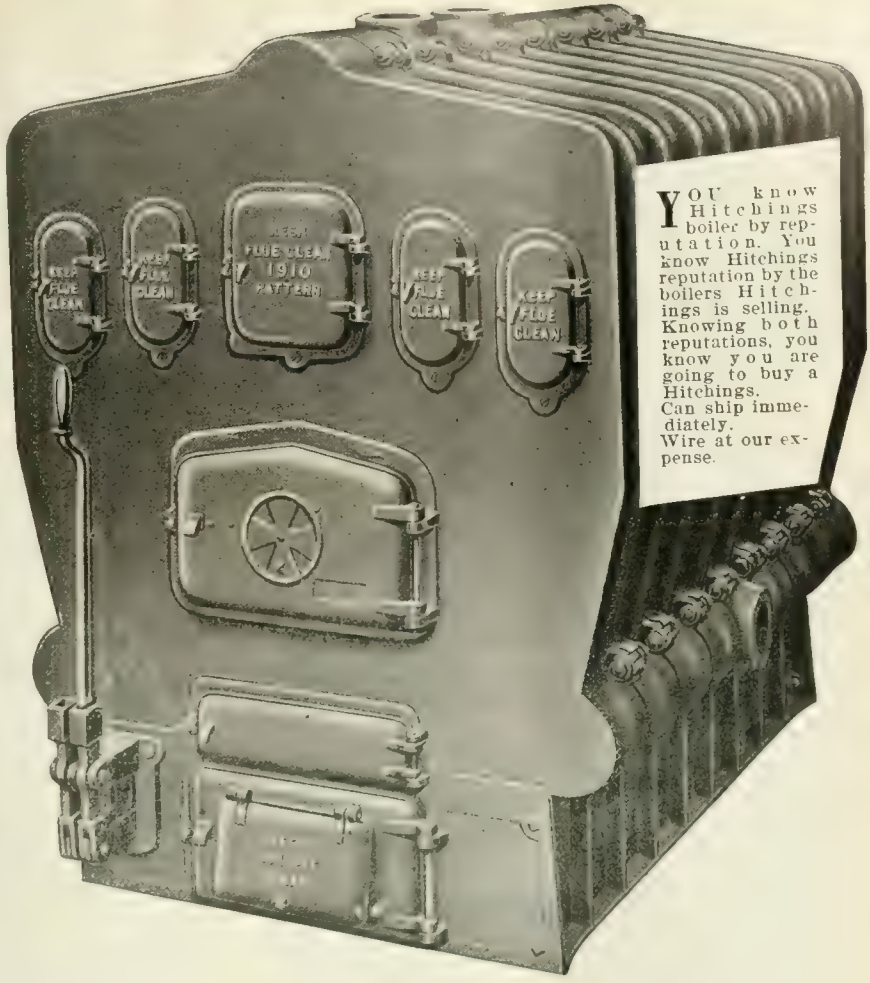
It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO., - Richmond, Ind.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



YOU know Hitchings boiler by reputation. You know Hitchings reputation by the boilers Hitchings is selling. Knowing both reputations, you know you are going to buy a Hitchings.
Can ship immediately.
Wire at our expense.

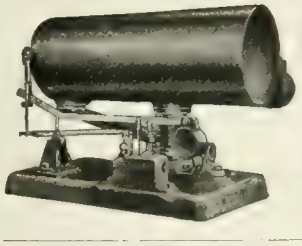
Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. **CHICAGO, ILL.**



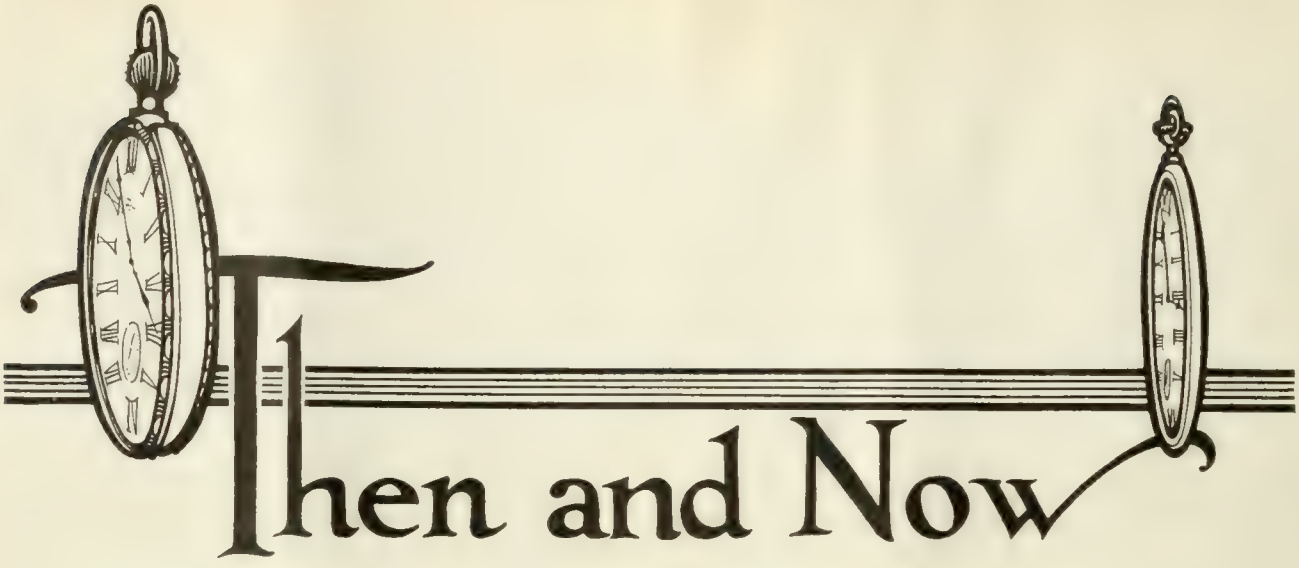
CONSULT US-ON-THE HEATING

ROB'T ROSS-JONES
HARRISBURG, PENNA.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

GLASS
for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from a **box** to a **car load** on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y **Saddle River, N.J.**



CAN'T you remember when your grandad used to hold you on his knee and let you look at his watch and listen to its tick?

What a big thick heavy watch it was: So thick that it bulged out his pocket.

As a curiosity those old watches are interesting, but you or I wouldn't think of carrying one.

The watches of to-day are smaller, thinner, and far better time keepers.

U-Bar greenhouse construction with its light graceful enduring frame of all steel U-Bars, taken in comparison with other curved eave constructions, is like comparing this thin finely made Elgin watch of mine, with your grandad's heavy, clumsy one.

Although the U-Bar is by far *the lightest of all constructions*, none is any more enduring.

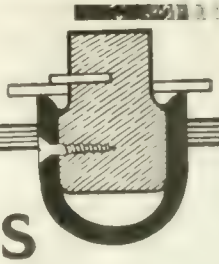
If then, you get extreme lightness, unequaled attractiveness and undisputed endurance, you certainly have the ideal house.

Just such a house is the U-Bar.

Send for catalog. Or send for us. Or both.



Erected for Elmer A. Darling, East Burke, Vt.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

LIBRARY
NEW YORK
BOTANICAL
GARDEN

Vol. XVIII. OCTOBER 25, 1913 No. 17



PHALAENOPSIS LUEDDEMANNIANA

DEVOTED TO THE
Florist, Plantsman, Landscape Gardener and Kindred Interests
PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.
SUBSCRIPTION, $1.00

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.

Boston, Mass.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Finest Plants Ever Offered

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING

Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.
Mention HORTICULTURE when writing

We grow large quantities of

Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List

R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

STOCK CHRYSANTHEMUMS

PLANTS CHEAP TO CLEAR BENCHES. 20,000 Chrysolora, Golden Glow, Halliday, Unaka, Wells Late Pink, Chas. Razer, Syme, Gloria, Pacific Supreme, Snow, Robinson, $2 per 100, any 500 for $9.

R. C. Carnation Enchantress Supreme $4 per 100.

HARLOWARDEN GREENHOUSES,
Greenport, N. Y.
Mention HORTICULTURE when writing.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.
Mention HORTICULTURE when writing.

BUY YOUR Gladiolus America

FAMOUS FOR FLORISTS FROM FLOWERFIELD

Acclimated--True--Healthy

Ask for Gladiolus Catalogue

JOHN LEWIS CHILDS
FLOWERFIELD, L. I., N. Y.

ROBERT CRAIG CO.

ROSES, PALMS.

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

GERANIUMS

Best Sorts, in Bud and Bloom $7 per 100

Bedding Plants, Full Line, First Quality, Any Quantity

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren Street, New York, N. Y.
Write for quotations

We wish that every Carnation Grower throughout the land would follow the method of the "Man from Missouri" and have us **show him** our

Philadelphia Rose Pink Carnation

before he places his order. Ten to one both of us would profit in the end — The Carnation Grower, by planting a large quantity; We by booking large orders.

Seeing is Believing

And so we say, come to Detroit at any time, and **see the Philadelphia Rose Pink Carnation growing.** Our word for it — the sight of **Thirty-five Thousand Perfect** plants will surpass your own expectations.

Prices:—$12.00 per 100; $100.00 per 1000; 2500 at $95.00 per 1000; 5000 at $90.00 per 1000.

Place You Order Now.

S. S. SKIDELSKY & CO., 1218 Betz Bldg., Philadelphia

In Writing Advertisers Kindly Mention HORTICULTURE.

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case)	$1.25	$8.50
14 ctm. bulbs (1000 to case)	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.
Horticultural Importers and Exporters
90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.
Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....587
Albany Cut Flower Ex....578
Allen, J. K.....578
Am. Importing Co. 575
Anderson, S. A..574
Aphine Mfg. Co. 583-585
Aschmann, G....559
Atlanta Florist Co. 576
Ayres Co., S. Bryson 571
Badgley, Reidel & Meyer.....578
Balsley, Harry..587
Barrows & Son..560
Bayersdorfer, H. & Co.....575
Bay State Nurseries 567
Bloomingdale's. 572
Bobbink & Atkins 567
Boddington, A. T. 569
Bolgiano & Son, J. 570-571
Boston Florist Letter Co.....576
Breck, J. & Son.571
Breck Robinson Nurseries 568
Breitmeyer's, J. Sons 572
Bryan, Alonzo J.560
Burnett Bros,...571
Burpee, W. A. & Co. 571
California Florist 573
California Seed Growers' Asso.571
Chicago Carnation Co.....576
Consumers Fertilizer Co.....585
Cooke, Geo. H..574
Childs, John Lewis 558
Clarke's, D. Sons 572
Conard & Jones.568
Conine, F. E. Nursery Co....568
Cowee, W. J....578
Craig, Robt. Co.558
Dards 572
Davenport, A M.558
Dawson, H. S..560
Detroit Flower Pot Co.....587
Dorner & Sons Co 560
Dreer, H. A..... 567-586-587
Dunlop, John H.573
Eastern Nurseries 560
Edwards Folding Box Co.....576
Elliott's, W.Sons.571
Eppstein, Julius.573
Ernest, W. H...587
Ester, J. G.....586
Eyres, ...574
Farquhar, R. & J. & Co 558
Ford, W. P.....578
Forrest, Frank H 573
Fottler Fiske, Rawson Co.:...571
Freeman Orchid Co. 569
Framingham Nurseries 567
Froment, H. E..578
Franklin Davis Nursery Co....567
Galvin, Thos. F. 573-574
Gasser, J. M. Co.573
Goodsell, P. H..567
Grey, T. J. Co..571
Gude Bros. Co..573
Hail Association.586
Hall & Robinson.573
Harlowarden Greenhouses.. 558
Hart, Geo. B....579
Heacock, Jos....558
Heinecken, Otto.571
Henderson, A....559
Hess & Swoboda.572
Hews, A. H. & Co. 587
Hill, E. G. Co..579
Holland Nurseries 558
Hilfinger Bros...587
Holm & Olson..572
Hudson Carbon Co. 585
Industry Moss & Peat Co...569-579
Interstate Tobacco Co.....584
Jacobs, S. & Sons 587
Johnson, J. Oliver 571
Johnston Bros..573
Jones, Robert Ross 587
Kasting, W. F. Co. 579
Kelway & Son...571
Kervan Co.....578
Keller, J.B.Sons.572
Keller, J. M. Co.560
King Construction Co.....586
Kramer, F. H..573
Kroeschell Bros.587
Kuebler, W. H..578
Lager & Hurrell.569
Lemon Oil Co...584
Leonard Seed Co.571
Leuthy, A. & Co.560
Loechner & Co..558
Lord & Burnham Co. 588
MacMulkin, E...573
May & Co., L. L.574
McConnell, Alex.572
McCarthy, N. F. Co. 576
McCray Refrigerator Co.....575
McHutchison & Co. 560
McKenna & Sons, P. 573
McKenzie, John.558
McManus, Jas...578
Michell's Seed House 570
Michigan Cut Flower Ex.....576
Millang, Chas...578
Montreal Floral Exchange 578
Moon, Hentz & Nash 578
Murray, Samuel.572
National Nurserymen 567
N. E. Nurseries..568
Nicotine Mfg. Co.585
Niessen, Leo Co.576
N. Y. Stable Manure Co.....585
Oechslin, Frank.559
Ouwerkerk, P...558
Park Floral Co..572
Palmer, W. J. & Son 574
Parshelsky Bros.587
Penn the Florist.573
Pennock-Meehan Co. 577
Pierce Co., F. O.587
Pierson, A. N..560
Pierson, F.R.Co.574
Plant Food Co., 20th Century..585
Poehlmann Bros. Co 576
Pollworth, C. C..572
Pratt B. G. Co..585
Pulverized Manure Co.....585
Quaker City Machine Co.....587
Randall's Flower Shop 574
Reed & Keller..578
Reid, Edw.....579
Reinberg, Peter.576
Reuter's 574
Rice, M. Co.....573
Robinson Co., H. M. 578
Rochrs, J. Co...569
Roland, Thomas.560
Rolker, A. & Sons 560-587
Rosery, The 572
Sander & Son...569
Scott, John.....558
Schling, Max....573
Schwake, Chas. & Co.....559
Sheridan, W. F.578
Sharp, Partridge & Co.....587
Siebrecht, Geo. C.578
Sim, Wm.....569
Siggers & Siggers 586
Skidelsky, S. S. & Co.....559
Smith, P. J.....578
Smith & Co., E. D. 567
Smith, W.&T.Co.567
Smyth, Wm. J..572
Sprague, J. H..568
Stearns, A. T. Lumber Co....587
Stumpp, Geo. M.572
Syracuse Pottery Co. 587
Totty, Chas. H..560
Thorburn, J. M. & Co.....571
Traendly & Schenck 578
Valentine, J. A..572
Van Assche, F..587
Vincent, R., Jr., & Sons Co ...558
Wants, For Sale.584
Ward, R. M. & Co. 560
Weber, F. C....573
Weeber & Don..571
Welch Bros.....576
Whittier & Co., W. B.....567
Wilk, John.....570
Wilson, Robt. G.572
Wilson Seed Co., J. J.....571
Wood Bros.....560
Woodrow & Markelos 578
Young, John 578
Young & Nugent.572
Zargen, O. V...570
Zinn, J. A.....573
Zvolanek, Ant. C.571

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 580, 581, 582, 583

Buy Horseshoe Brand GIGANTEUM

Size	6 x 8	in.	$16.00	per case of	400
"	7 x 9	"	18.00	" " "	300
"	8 x 10	"	23.00	" " "	250
"	9 x 10	"	22.00	" " "	200

Baby Cases

Size	7 x 9	in.	$ 7.50	per case of	100
"	8 x 10	"	10.00	" " "	100

Send us your order. Buy now for Cold Storage deliveries during 1914. Storage charges extra at 15c. per case per month.

Not How Cheap But How Good

RALPH M. WARD & CO.

The Lily House

71 Murray Street, - - - NEW YORK

The Best Lily Bulbs in the World.

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

CYCLAMEN

Best strain in existence.

4 inch	$25.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale.—Boston, Mass

J. M. Keller Co., Inc.

GROWERS

DECORATIVE PLANTS

OF HIGH QUALITY

Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Azaleas

Instead of plunging the newly arrived azaleas in frames sometimes as closely packed as they were in their cases, as is so often done, they would better be potted up as soon as unpacked and assorted. Leaf mold and friable loam in equal parts, with a little bone meal and sand added is the soil usually employed. The best varieties for early forcing, to be had in bloom easily by Christmas, are Simon Mardner, Apollo, Duetsche Perle, Pauline Mardner and Vervaeneana. Before the azaleas go into their pots a thorough soaking of the root balls is necessary. Even if they should not seem to be overdry, no chances on this score must be taken. The failure of plants to do well may, in nearly all instances be traced to dry roots. The inner core of the ball, once dried out, remains in that condition ever afterward, no matter how regularly and thoroughly the plants are watered. Immersion in a pail or tub of water is the way to reach the spot. The plants after being potted, should not be exposed to sunshine for eight or ten days, nor to frosty weather at any time although a very cool and airy place suits them. All of the later kinds intended for spring sales may be kept for the greater part of winter in a temperature not much below or above 40 degrees.

Callas

Callas will, under anything like proper treatment, assure fair returns to the wholesale cut flower grower. While a rose house temperature is about right for a bench stocked with callas, both crops seldom do well under the same roof. To grow good callas the first importance is direct and strong sunlight. From this time on they will require some fire heat to maintain a temperature of from 58 to 60 degrees at night. When in growth they are moisture loving plants; they want soil and air, well and constantly charged with humidity of the life-giving, non-stagnant kind. When these plants are kept on growing without intermission and with ceaseless pushing of bud and bloom, the foothold a mass of fleshy white roots that will eagerly absorb large quantities of liquid food if dealt out to them regularly twice a week, there will be no let-up in the cutting of fine spotless flowers. Damping down will be necessary at least twice a day and ventilation should be given judiciously whenever possible.

Chrysanthemums

At this date all varieties have set their buds save exceptionally backward lots, and extremely late sorts. A helpful habit that deserves to be cultivated by everybody engaged in mass-cultures of this kind is the jotting down on the pages of a handy memorandum book anything worthy to be remembered of what the present season's experience has taught. Self-acquired knowledge thus preserved in readily accessible form, is of greater value as a guide in the laying of plans for another season than the sayings of others. Chrysanthemums now require close attention to prevent crookedness of stem by careful tying, mutilation by a constant outlook for insects and mildewed upper foliage by properly adjusted temperature and judicious application of air, moisture and feeding. In feeding and syringing it is much easier at this time of the year, and a mistake more often made and more disastrous in its effects on the stock, to do too much than too little.

Cinerarias

It is not easy to discard these beautiful plants, for they are so showy and the strains now offered are grand. These plants will now be making very rapid growth and should have every attention to keep them in full vigor. Seeds sown in August for Easter plants will now be in 2 in. pots and will soon want a 4-in. in which they will pass the winter, and in February be shifted into their flowering pots, 5 in. or 6 in. Give a cool and airy house, where the temperature can be kept from 40 to 45 degrees at night, with a rise of 10 degrees during the day with sun heat. In fact the fullest light and a low temperature and constant fumigation are the three essentials to make stout, healthy cinerarias. Particular care should be taken to ventilate well during warm and dull weather so that the plants will not grow soft. The green aphis is likely to be troublesome from this out so fumigate once a week and thus hold them down. Do not let the plants get pot-bound before giving them a shift, with a compost of two-thirds of chopped sods and one-third of well-decayed cow manure.

Sweet Peas

Sweet peas that were planted the end of July will soon be coming into flower. While the demand for sweet peas is not especially vigorous until after the chrysanthemum season has passed, there are customers who want them the year around and they are now counted among the indispensables in the wholesale markets. As the days grow shorter more and more attention should be paid to the watering of the benches. An overwatering once in a while might not show bad effects, but a continuation of it will ruin the constitution of the stock in a few days. Go over the benches carefully before watering, and if the soil is in need of water give it good and plenty. On the other hand, don't water soil which is not really in need of it. Look over the early plants every five or six days and give them the necessary ties. The night temperature for flowering peas should be kept about 50 degrees and a couple of degrees lower is better as winter progresses. Fire heat is now a necessity, but the plants must have free ventilation. Avoid, however, cold draughts, which may result in an attack of mildew.

Shamrocks for St. Patrick's Day

The last of October and up to the first half of November is a good time to make a liberal sowing of shamrock seeds. Use shallow flats or pans and fill with a compost of soil and leaf mold in equal parts with some sand. Give them a place well up to the glass in a house where the night temperature averages from 48 to 52 degrees. When they are well started a few degrees cooler will do. When they are large enough to handle prick out into other flats and grow on. Sometime after the new year they will be ready for small pots.

Mr. Farrell's next notes will be on the following: Dutch Bulbs for Outside; Ericas; Primulas; Orchids; Winter-Flowering Geraniums; Wintering Fuchsias.

OUTDOOR VEGETABLES AND FRUIT

CONDUCTED BY

Edwin Jenkins

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Jenkins. Such communications should invariably be addressed to the office of HORTICULTURE.

Exhibiting Vegetables

Obviously it is useless to spend a great effort in the production of fine exhibition vegetables and then to undo it all by a poor presentation when the crucial time arrives. There has been a marked improvement in many of the fall exhibitions in the past few years in the manner that vegetables are staged for exhibition but many shows, especially the agricultural fairs, are lamentably deficient in this particular. Let us then begin to prepare at least a week before the show.

POTATOES: Wash the potatoes with a sponge carefully, not to scratch them with any grit that may be clinging to them. Use several lots of cold, clean water. Having prepared a liberal amount by washing clean, proceed to select the exhibition specimens. Have an ideal and try to get your tubers as near as possible to your ideal, medium size, shallow eyes, clear skin and perfect freedom from bruises, scab, wormholes or other blemishes. Then every potato should be as nearly uniform with the rest as rigid selection can make them. The specimens having been selected, carefully wrap them in tissue paper and lay away in a dark cool cellar till the day of the show arrives.

BEETS, CARROTS AND PARSNIPS may be washed and selected the same way, perfect form, uniformity and freedom from blemish being the ideal, as well as being as large as possible.

ONIONS: The onions may be selected and rubbed carefully over by the bare hand to remove any rough, loose skin. The tops should be bent over and neatly tied with raffia or string. The ideal here is: size as large as possible, a smooth skin, well ripened and conformity to type. Handle the onions with care as they bruise readily. Common newspaper makes a fine wrapper for them and each bulb should be wrapped separately.

The foregoing having all been cleaned and selected some five days to a week before the show we come now to the more frail kinds. Some of these, such as the MUSHROOMS, are best picked on the morning of the exhibition but the CAULIFLOWER may be cut a couple of days ahead and wrapped in wax paper, but first see that there are no slugs or worms in among the leaf stems. Trim off all the leaves except a few of the youngest which may be left till staging time when they should be trimmed as shown in photo. A good cauliflower for exhibition measures from six to eight inches in diameter, is round, convex, solid and as nearly pure white as possible.

LEEKS should be peeled, cleaned of all rough or dirty skin, then sponged with cold water and wrapped with wax paper till staged.

GLOBE ARTICHOKES may be cut and the stems put in water a day or two prior to the show, if necessary to protect them from the weather. A good specimen of an EGG PLANT should be uniform in color all around, large and good shape and the several specimens shown should match as nearly as possible. Don't show one large one and two or three small ones if you can avoid it. Egg plants may be gathered some days ahead if desired as they keep well.

BRUSSELS SPROUTS should be round, solid and dark green. They will stand picking a little in advance and should be soaked for an hour or two in clear cold water to clean them and fill them with moisture, then lay them out thinly in a flat and cover with paper.

CELERY should be full heart, brittle, crisp and clear of rust or slug marks, as well as perfectly blanched. A good soaking in cold water and sponging will clean it and keep it fresh. Then after pulling off the coarsest outside leaves tie it with a piece of raffia and when staging trim off the roots.

TOMATOES should be as nearly a perfect ball as possible, bright and clear of color, uncracked, firm, medium and uniform size and showing a fresh green stalk attached. Pick not more than a day ahead and wrap them separately in two or three thicknesses of tissue paper.

PEAS should be reasonably full, young, free from mildew and a good variety.

BEANS should be as large as possible so long as they are tender, crisp and young. Every pod should be perfectly straight.

CUCUMBERS for exhibition should be green, straight, uniform in thickness, round and fresh, carrying a good bloom. Wrap carefully in wax paper and handle the fruit as carefully as you would a bunch of grapes.

LETTUCE should be large, fresh and solid, having the outer leaves all in perfect condition. Soak well in water



ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Tying.

Do not neglect tying at this time of the year, for the plants will need all the air and light that they stand show to get. Bunched up and poorly tied roses will usually get a good dose of spot to start with, and by the time that gets through with them the season is well over and the cut flowers are cheap once more. Never try to run a hospital at the time of the year when the prices are away up. Begin with good plants and keep them healthy, by treating them right. With the Beauties it is especially necessary to see that they are tied up all the time and not allowed to lie all over the benches. All shoots and growths that are thus allowed to lie around will usually go blind, and then they are worse than useless for they are a hindrance to new growth. Some growers will use these blind shoots to propagate from but we call that a very poor policy. Beauties are hard to set at times and using the blind wood for propagation will not improve them in the least. As for tying material that rests with the growers; some prefer this, others that. We find the rough burlap string the best and cheapest to use. Raffia does not hold the growths to the wires properly, and allows them to slip around a good deal while the plants are being syringed. This is a nuisance, for the plants thus bunched will be hard to keep clean from spider and the other enemies of the rose. Do not tie the plants too tight, so that the strings do not cut the growths. At the same time they should not be tied too loosely for that would be equally as bad. Here again the string mentioned comes to the rescue for it has all the necessary give, and as the shoot expands the string makes room for it.

Other Plants in the Rose Houses.

With the frost hanging right around, we are often tempted to crowd a lot of plants underneath the benches of the rose houses, at the ends wherever a little place is to be had. Our experience is such that we will never allow other plants of any kind to enter the rose houses. Keep the roses by themselves, and you will not have to fight half a dozen tribes of insects that are usually brought in with such plants.

Temperature for Cloudy Days.

Do not allow the houses to become too warm on the cloudy days. Sixty-six degrees is as warm as they should be allowed to get. A crack of air will suffice. If the houses are too warm the plants will become very soft and mildew will no doubt set in as a result. After several cloudy days when the weather suddenly clears, do not allow the houses to run up to their standard temperature. Keep them down to 72 for the first day and then bring them up to their regular temperature the next day. If the houses were brought up the very first day, after standing at 66 for two or three days, the change would be too great, and harm will result, for the plants will usually wilt badly, and develop but little on such days. It is also well to put off syringing until the next day if possible. Of course if the danger from spider is great then syringe by all means, but if it is not absolutely necessary, then let it go until the next day, when the plants will be in better shape to take it. Remember that the plants are very sensitive, and any sudden changes of any kind will be felt by them much more than most of us would imagine.

---

and after shaking out the excessive water wrap in wax paper but be sure you don't bruise the leaves, as this will show up later if you do, and generally about the time the judges are around.

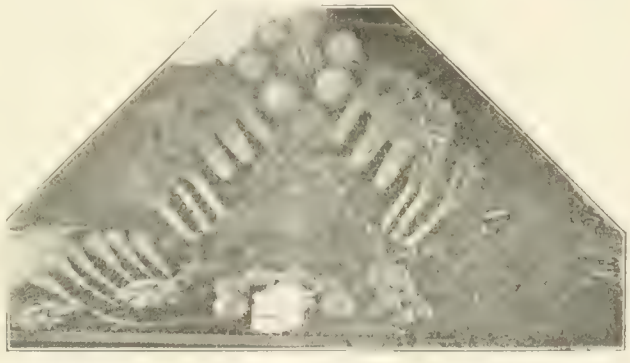
Asparagus will naturally be forced at this season of the year and it is much more attractive where grown in full light having green tips and pink stems. Asparagus will keep for several days if the ends are stood in water. Straight, thick stems as long as possible are the standard.

Parsley is the best green for garnishing and should be soaked in cold water so that it will keep fresh as long as possible.

There are quite a lot of other vegetables which may be exhibited but the general principles of well grown specimens, clean fresh and uniform will be a good guide for all of them.

Arrangement

Artistic arrangement enhances the value of every display of vegetables not only in the eyes of the judges but the public also are attracted by it and it should be the aim of every exhibitor to make his exhibit a work of art. The arrangement of a collection of 12, 18 or 24 kinds offers endless scope for various displays of taste but no hard and fast rules can be laid down for every man's guidance. The accompanying photographs are not intended to be an infallible guide but are merely suggestive. These collections had run the gauntlet of two or three days handling by spectators and were in a very ragged condition when the photographer got in his work.



HORTICULTURE

VOL. XVIII OCTOBER 25, 1913 NO. 17

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Phalaenopsis Lueddemanniana.

NOTES ON CULTURE OF FLORISTS' STOCK—Azaleas — Callas — Chrysanthemums — Cinerarias — Sweet Peas—Shamrocks for St. Patrick's Day—*John J. M. Farrell*..... 561

OUTDOOR FRUIT AND VEGETABLES—Exhibiting Vegetables — Arrangement — *Edwin Jenkins* — Illustrated 562-563

ROSE GROWING UNDER GLASS—Tying—Other Plants in the Rose Houses—Temperature for Cloudy Days—*Arthur C. Ruzicka*..... 563

FRUIT AND VEGETABLES UNDER GLASS—Root Pruning—Lettuce—*George H. Penson*..... 565

PHALAENOPSIS LUEDDEMANNIANA..... 565

CLUBS AND SOCIETIES—Lenox Horticultural Society—Pittsburgh Florists' and Gardeners' Club—St. Louis Florist Club—Massachusetts Horticultural Society—Society of American Florists—New Jersey Floricultural Society—Florists' Hail Association... 566
Westchester and Fairfield Horticultural Society—Chrysanthemum Society of America—Club and Society Notes 568

SEED TRADE—Wholesale Seedsmen's League—New Zealand Peas—Crop Reports from Denmark—Notes.. 570

OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 572
Flowers by Telegraph..... 573

THE VINCENT DAHLIA SHOW..... 574

FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago..... 577
Cincinnati, New York, Philadelphia, St. Louis..... 579

THE GARDENER AND HIS FIELD—*M. C. Ebel*..... 584

OBITUARY—Edward L. Pierce, portrait—Robert Kinkaid—W. T. James—John B. Byer..... 586

MISCELLANEOUS:
A New Rose..... 566
A Horticultural Project in Boston..... 568
News Notes 573
Personal 574
A Tribute to Father—Illustration..... 575
St. Louis Notes..... 575
Cincinnati Notes 584
New Corporations 584
Greenhouses Building or Contemplated..... 586

A good time to buy

The present is a most opportune time for [illegible] greenhouse trade to stock up [illegible] material as they may need during the coming season and can possibly make immediate room for. The large wholesale plant establishments are, at this season of the year, invariably overcrowded with stock and all plant material for growing on for Christmas or Easter or for normal winter sales may be bought now at figures that will leave a big profit as compared with the prices which will be demanded later on when cost of housing and care and expense of packing and risks of transportation in cold weather must all be covered. Azaleas, poinsettias, cyclamen, begonias, ferns, palms and a score of other staples that every florist must have can be purchased just now from the wholesale dealers advertising in this paper on most favorable terms. Write to a few of them and tell them we told you so.

Entertainment and publicity

The Park and Recreation Department of the City of Boston made a display of its resources and attractions in the great Columbus Day parade which was not only extremely attractive and creditable in every feature but as an example of publicity cleverness was certainly a masterly conception. The spectators were given to realize that Boston's park system is very much more than simply a series of well-groomed lawns, meadows, thickets and boulevards. The splendid floats, decked with evergreens and oak branches, giving practical demonstrations of the various recreation departments, children's games, bathing, life-saving corps, base ball, bowling on the green, groups of instructors, nurses, etc., etc., gave convincing evidence that the primary reason for the existence of a park department—its service for the health and rational enjoyment of all the people, old and young, rich and poor, is being well discharged. After such an eloquent exposition of efficiency it should not be difficult for the park and recreation commission to get anything it asks for from the citizens of Boston to carry forward its splendid work. It is easily the most popular of all the city departments.

Rochester's hat in the ring

We took occasion, recently, to comment regretfully on the reported abandonment of the plans for a show at Rochester this year, and so now that it has been definitely decided that the show will be given, we are glad to give equal publicity to that fact. We attach especial importance to this particular exhibition because, as before stated, of the advanced position taken by its management as to manner of staging and arrangement, on lines which we believe are destined to prevail in exhibitions generally in the not far distant future, where public appreciation and support is sought. As an exponent of progressive ideas concerning the purpose and character of public floral exhibitions Rochester has taken the initiative in a most commendable manner and we trust that her enterprise will be richly rewarded.

The following extract from a letter just received from Charles H. Vick is quite to the point:

> I noticed an editorial in the HORTICULTURE of Oct. 11th, on the Rochester Flower Show. It is the intention of the Rochester Florists' Association to hold their regular exhibition November 4, 5, 6, 7 and 8. For a time there was some discussion as to the advisability of holding a show this year, but it was finally decided to continue the good work, and we are preparing to give a larger and better show than ever. The private growers are responding nobly and we have promised up to date five to six large private places that heretofore have never exhibited. Our plan of arrangement will be a complete change from anything we have ever made before.

The Rochester Association is to be congratulated on having at its disposal the energy and initiative of a manager of the calibre of Charlie Vick. Of course the show will be a success, and all the more pronounced because of the temporary hesitation which has served to stir up the fighting blood of Rochester's Old Guard.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Root Pruning.

Root pruning automatically follows repotting fruit trees if this phrase is permissible in our business. The one should always precede the other because the trees plunged in the open air feel the benefit of the cool or frosty nights sooner than those growing under glass even though they may be standing wide open right along. Not all trees will need root pruning, only those that are not cropping satisfactorily or are making wood excessively. This latter trait is mostly to be found in young trees making their first or second year's growth. After this time has elapsed it is usually an easy matter to take the rankness out of them by cropping heavy, providing a set is obtained. Young trees planted last fall or winter in new borders will generally grow wood that is not conducive to producing the surest crop and a like state of things would exist next fall if this is not rectified now. Great strong wood is not the best to have in a tree for if it has a fair percentage of flower buds it will be noticed that they are very much harder to set here than on wood with less strength, and after this stage has been passed there is that other critical time—stoning—that has to be gone through and if there is any trouble around the fruit set on strong heavy wood will be the first to feel it. Wood of moderate strength will always give the best results. I say moderate because one might think I was in favor of a very weak growth. You will notice this is the wood that carries the most flower buds—those bunches of threes with two flower buds and a growth bud in the center every time. This then is the object of root pruning, to stop rank growth and produce wood that will carry the best crops.

Although the details of the work to follow will be for trees growing under glass the system can be used on trees growing in the open with the same beneficial results. Do not be afraid to root prune; two great points are essential for success, viz., do it at the right time and do not allow the roots to become dry before the trees are started into growth again. Have the soil in the border in a workable state, i. e., not too wet nor the reverse; the one is as bad as the other. This means that the date of commencing operations must be figured out some little time before hand and the border given a watering so that it will have time to partly dry before a start is made. Mark a semi-circle on the soil around the base of the tree at a reasonable distance and dig down to the drainage, throwing the soil well out of the way. Any roots that are encountered at this distance can be cut off near the outside of the trench. Now loosen the soil from the ball with a small digging fork, throwing it out of the trench at the bottom. When once a trench has been made around a tree the spade or shovel should not be used on the ball; do all this work with the fork leaving the shovel to get it out of the way from the base. When the ball has been reduced sufficiently to allow of tunneling underneath it do one side at a time and then replace the soil before the other side is attempted, otherwise the ball will break. Real bad trees must be got thoroughly underneath as there is a likelihood of strong roots going straight down. To make this test complete push a few yellow leaves underneath the ball from the first side done and dig on under the second side until the leaves are recovered; in this way it is an impossibility to miss any. Roots will now be visible in plenty and also be cause of trouble if not looped up to the trunk of the tree while the base is being filled in properly. Ram this soil underneath just as firm as it will go and add enough in the trench so that no roots can be laid in anything but a horizontal position. The actual pruning is easy; use a sharp knife and make an oblique cut upward. The growth the tree has made must determine how much to reduce them; let the strongest ones receive the most attention. All broken ends should be cut clean as they heal so much quicker. Be careful when replacing the roots; do not bunch them up but rather spread them over the largest amount of space possible and also remember they are found at varying depths, but try to get them nearer the surface than the drainage. Great amount of damage can be done by carelessly throwing the soil on the roots. It seems a simple thing but try it out. Having several roots laid out ready to be covered throw the soil on the first any old way, then take the second lot and gently spread on some fine soil, working the shovel from the ball to the end of the roots. In this way the roots will be kept straight by the course the soil is taking while in the former way the course of the soil may be across them all and thrown quickly it will take all the roots with it into a bunch. See that the trees have a good soaking soon after the job is completed.

Lettuce

Plants growing in the cold frames have made a quantity of very soft growth during the last three weeks, the weather here being exceptionally mild with plenty of rains. While we all appreciate a quick fall growth of these subjects there is such a thing as having too much of a good thing, a fact that may be very noticeable should the cold weather set in suddenly. Keep the plants as cool as possible until frost does come which will make them harder and in better shape to stand the cold. Cold winds will do more damage than a cooler steady temperature. From now on whenever water is needed apply it to the plants during the early morning so that they have time to dry before night. Later plants coming along in the vegetable house must not be coddled or there will be trouble ahead.

PHALAENOPSIS LUEDDEMANNIANA.

Our cover illustration this week shows a pretty specimen plant of this bright little stove orchid, a native of the Philippine Islands and which should be included in every collection of orchids. It flowers in February and March. The blooms are beautifully marked with cinnamon, amethyst and yellow on a white ground, two to three inches across and as shown in the picture, borne gracefully on procumbent scapes. This species has been the parent of a number of fine hybrids. The plant illustrated was grown and photographed by M. J. Pope, Naugatuck, Conn.

Clubs and Societies

LENOX HORTICULTURAL SOCIETY.

The monthly meeting of the above society was held in the Town Hall, Lenox, Mass., on Saturday evening, Oct. 4th. A diploma was awarded to Chas. H. Totty of Madison, N. J., for a collection of outside early flowering chrysanthemums, the most conspicuous being H. H. Crane, A. Barnham, Chaldon, Hector, Mignon, Provence and Carrie. A. J. Loveless gave an interesting account of his recent trip to Newfoundland and Nova Scotia and of the landscape in general, and special mention might be made of the sweet peas, which Mr. Loveless said were the finest he had ever seen. A. H. Wingett, inspector for the State Board of Agriculture, also gave a very interesting talk of his visit to Worcester (Mass.) Agricultural Fair. It was also voted to affiliate with the Chrysanthemum Society of America. The coming Fall Exhibition, on Oct 23rd and 24th, was freely discussed and the following named gentlement have accepted the invitation to officiate as judges: R. Tyson, Convent, N. J.; H. B. Vyse, Morristown, N. J.; Jas. Ballantyne, Ridgefield, Conn., and J. W. Everitt, Glen Cove, N. Y. In addition to the society's prizes the following prizes have been generously donated:

A. H. Hews & Co., for specimen kentia; Giraud Foster's silver cup, for group of orchids; Julius Roehrs, special prize for orchids; Pierson 1 Bar Co. for 24 blooms, distinct varieties; Lord & Burnham Co., for 24 blooms; Scott Bros., for 12 blooms disseminated in 1913; C. H. Totty, for 6 Ursula Griswold; Wells Pockett, medals for 2 flowers Clara Bangbert, Elmer D. Smith, for 6 Elberon; W. Kleinheinz, for vase of W. Kleinheinz, Chrysanthemum Society of America, cup for 10 blooms, one variety; Hitchings & Co., for 18 American Beauty roses; A. T. Boddington, for table of orchids; W. E. Marshall & Co., for 10 varieties potatoes; Frank Howard, for vegetables; Peter Henderson & Co., for vegetables; H. F. Michell Co., for the most meritorious exhibit; R. & J. Farquhar & Co., for collection of salads; Fottler, Fiske, Rawson Co., silver and bronze medal for exhibitor winning the greatest number of prizes; H. A. Dreer, silver cup for exhibitor winning the greatest number of first prizes; Jos. Breck & Son, silver cup for collection of vegetables; Ann Arbor Chemical Co., for outdoor fruit.

JOHN MAIR, Asst. Sec.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

Fine weather and the interesting subject, "Dahlias," brought out a good attendance at the monthly meeting of this club, held in the Fort Pitt Hotel, Pittsburgh, the evening of October 7. There was a large and fine display of dahlias, and almost the entire evening was spent in examining, and commenting on the blooms.

Carl Becherer, gardener for the Dixmont Hospital, Dixmont, Pa., was awarded a cultural certificate for seedling dahlias. Mr. Becherer said the seed had been procured partly from a local seedsman, and partly imported direct from Germany. The beauty of these unnamed singles and half doubles was very marked and none of the exhibits attracted more attention. Arthur Chandler, gardener for Mrs. J. D. Lyon, Sewickley Heights, Pa., showed a small collection of very fine, large well-grown blooms. One of his varieties, Robert Le Diable, had the largest blooms of any dahlia exhibited, and for this variety he was awarded a certificate of merit and honorable mention for his other varieties. R. Vincent, Jr. & Sons, White Marsh, Md., showed an unusually well-grown exhibit. The judging committee awarded a certificate of merit. H. C. Knauff of East street, Pittsburgh, North Side, received honorable mention for roses, outdoor-grown, and dahlias. G. Wessenauer, of Sewickley, Pa., showed a good collection of tuberous rooted begonias and Randolph & McClements, Pittsburgh, showed a collection of commercial ferns.

Jno. W. Jones, foreman Phipps Conservatories, Schenley Park, staged blooms of the century plant, and a very large chrysanthemum, Artistic Queen, an early variety. Henry Dreer showed a large collection, mostly of cactus dahlias, of good commercial value. Certificate of merit was awarded. Max Schreiber, McDonald, Pa., received honorable mention for dahlias. Chas. H. Totty, Madison, N. J., received a certificate of merit for a collection of early-blooming chrysanthemums. Through some mistake they had been forwarded nearly ten days before the meeting, but the blooms showed no signs of age, proving that they are good keepers.

W. A. Clarke gave an interesting account of a trip made through the Yellowstone Park and Colorado.

H. P. JOSLIN, Secy.

ST. LOUIS FLORIST CLUB.

This club held a largely attended and interesting meeting on Thursday, October 9th, at 2 o'clock. The meeting was featured by a lecture on Decorative Ferns by W. S. Wells. He showed cut fern fronds of all varieties and gave blackboard illustrations in discribing them and their care.

A. Jaenicke spoke on Publicity and a spring flower show which after his interesting talk was fully discussed. A final vote on the spring flower show will be taken at the November meeting. Joseph Hauser of Webster exhibited a grand bunch of his new single red dahlia which was greatly admired and a committee was appointed to look up the merits of this dahlia as it grows in the field. The question on profits on cut carnations brought out a lengthy discussion. This topic will be continued at the next meeting.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The big Chrysanthemum Show which annually attracts a good attendance of trade visitors to Boston will be held in Horticultural Hall, on Thursday, Friday, Saturday and Sunday, Oct. 30 to Nov. 2 inclusive. The prizes are ample to bring out a fine showing of chrysanthemums but the tendency of late years is to introduce exhibits of orchids, decorative foliage plants, etc., as well as chrysanthemums and this occasion will undoubtedly see a representative horticultural exhibition for this season of the year.

FLORISTS' HAIL ASSOCIATION.

The change to a rate of 15 cts. per hundred sq. ft. on single-thick glass by the Florists' Hail Association will take effect on Nov. 1st, 1913.

The rate on double-thick glass remains the same for the ensuing year.

JOHN G. ESLER, Sec.

SOCIETY OF AMERICAN FLORISTS.

Department of Plant Registration.

R. Vincent, Jr., & Sons Co., of White Marsh, Md., submit for registration the cannas described below. Any person objecting to the registration or to the use of the proposed names, is requested to communicate with the secretary at once. Failing to receive objections to the registration, the same will be made three weeks from this date.

Jessica—A beautiful shade of rose carmine, flowers large, trusses enormous, freely produced throughout the entire season; dark, bronzy green foliage; height about 3 1-2 feet. Seedling of Wm. Saunders.

Benivolia—A brilliant shade of Lincoln red, flowers beautifully formed, and borne in great profusion, dark, rich green foliage showing a tinge of bronze; dwarf grower. Seedling of Wm. Saunders.

Horatio—Large waxy flowers of beautifully formed petals. Brilliant crimson scarlet, edged with golden yellow throat, spotted red; foliage dwarf, robust, of good texture, deep green. Seedling of Wm. Saunders.

Lafew—Medium to large flowers in large trusses, which are profusely produced. Foliage very dark medium green, overlaid with a bronze sheen; dwarf, sturdy grower, orange scarlet. Seedling of Wm. Saunders.

Gonzabo—Brilliant carmine, large flowers of waxy petals, enormous trusses, luxuriant, dark, bronzy green foliage; grows about 3 1-2 feet high. Seedling of Wm. Saunders.

Mercutio—Intense vermillion scarlet shading to pink at the base of petals, golden yellow at edge. The foliage is clear green; about three feet high; an early and continual bloomer. Seedling of Wm. Saunders.

JOHN YOUNG, Sec.
53 W. 28th St., New York.

NEW JERSEY FLORICULTURAL SOCIETY.

The October meeting of the above society was the last meeting to be held in the Lindsley building, as the society has rented a new hall at the corner of Main and Park streets, Orange. It is known as the Jr. O. U. A. M. Hall and is a much larger and better building for show purposes. The new building will be opened with a chrysanthemum and vegetable show on Nov. 3rd. Schedules may be had from the Secretary, G. W. Strange, 216 Main street, Orange, N. J.

Awards.

Competitive—W. Barr, Cattleya labiata, 87 points; Mrs. Charles Hathaway, carnations 68, violets 65, cut flowers 65; S. & M. Colgate, roses 85, carnations 75, roses 80 (Lord & Burnham prize); A. C. Van Gaasbeck, roses 82.

Non-competitive—Mrs. H. Graves, seedling dahlias, certificate of merit; A. C. Van Gaasbeck, display of dahlias, special mention. Vote of thanks to the following: Joseph A. Manda, for Cattleya aurea and Laelio-Cattleya; Mrs. Chas. Hathaway, chrysanthemum Mrs. Geo. Burke; A. C. Van Gaasbeck, peony-flowered dahlias; Essex County Country Club, dahlias Dreer's White and Cuban Giant, display of dahlias and gladioli.

A NEW ROSE.

A new rose registered by George Burton of Wyndmoor, Phila., Pa., is filed with the American Rose Society. It is a very distinct sport from My Maryland, first discovered in 1910 and now filed for the first time.

BENJAMIN HAMMOND, Sec.



IF YOU ARE IN NEED OF

HARDY PERENNIAL PLANTS

"Get them at Dreer's"

This Fall we are better than ever prepared to serve you with this class of stock and particularly call your attention to our *"Specials"*

JAPANESE IRIS GERMAN IRIS
HARDY PERENNIAL PHLOXES
DOUBLE HERBACEOUS PAEONIES

Send for our special circulars describing these if you have not already received copies.

Our ***Current Wholesale List*** describes all other seasonable stocks. Consult it before you place your orders.

HENRY A. DREER, Inc.

714 CHESTNUT STREET - - PHILADELPHIA, PA.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES
INSPECTION INVITED
Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS**. 50c. postpaid.
Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.
Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

When writing to advertisers kindly mention HORTICULTURE.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.
Our Illustrated and Descriptive Catalogue for the asking
THE BAY STATE NURSERIES, North Abington, Mass.

THE WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

At the October meeting of the Westchester and Fairfield Horticultural Society, at Greenwich, Conn., the fall show committee reported everything arranged. It will be held in the Armory, Stamford, Conn., Nov. 7th-8th. A very attractive schedule has been got together with classes for all. The prizes for dahlias, offered by Thos. Head of Bergenfield, N. J., brought out some extensive exhibits of wonderful colors and size, notably that staged by P. W. Popp, whose collection was a show in itself. Following are the prize winners:

P. W. Popp, 1st for Collerettes, with 14 varieties; for Decoratives with 40 var.; for Cactus with 62 var. A Whitelaw, 2nd for Cactus. Alex. Marshall, 2nd for Decoratives. Dehn & Bertolf, honorable mention for collection of shrubs, trees and ornamental grasses. P. W. Popp, honorable mention for chrysanthemum White Gloria; Thos. W. Head, Bergenfield, N. J., honorable mention for display of dahlias, for 1914 introduction. Dehn & Bertolf, honorable mention for everbearing raspberry St. Regis. Thos. Regan, vote of thanks for carnation, California Giant. J. B. Andrew, vote of thanks for Arctotis grandis. J. B. Roy, honorable mention for Nephrolepis exaltata Whitmanii. C. H. Totty, Madison, N. J., honorable mention for collection of hardy chrysanthemums. J. Guermonspreg, highly commended for collection of cactus dahlias. A. Breschkki, vote of thanks for plants of French hydrangeas.

OWEN A. HUNWICK.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Exhibited at Chicago, Oct. 11, by H. Weber & Sons Co., Oakland, Md., sport of Glory of Pacific, pinkish white, Com. scale 86 points.

Exhibited at New York, Oct. 11, by Chas. H. Totty, Madison, N. J., J. 5, chestnut brown. Jap., Com. scale 85 points, Ex. scale 86 points.

Exhibited at Cincinnati, Oct. 11, by H. Weber & Sons Co., Oakland, Md., Sport of Glory of Pacific, blush white, Com. scale 82 points.

CHAS. W. JOHNSON, Sec.

CLUB AND SOCIETY NOTES.

We are informed that the negotiations towards an amalgamation of interests by the Chicago Florists' Club and the Cook County Florists' Club have been dropped for the present.

The 82nd annual exhibition of the American Institute of New York will be held in the Engineering Building, 25 to 33 West Thirty-ninth street, New York, on Wednesday, Thursday and Friday, November 5th, 6th and 7th.

The florists of St. Paul have organized a local club to be known as the St. Paul Florists' Club. The work of organization was completed at a meeting held at the office of Eckhardt & Co., wholesale florists, on the evening of October 15, when a constitution and by-laws was drawn up and signed by 43 members. Officers elected were: Frank Gustafson, president; O. D. Eckhardt, vice-president; Chas. R. Fuhlbruegger, secretary; M. C. Hanson, treasurer. Monthly meetings will be held.

Owing to an apparent lack of public interest members of the New London Horticultural Society decided at a meeting last Monday evening to abandon the annual fruit and flower show. The society was enthusiastic enough over the project but it was deemed manifestly impossible to make the affair a success without the co-operation of outsiders. Several days ago announcement was made of Monday night's meeting. The fact that no interest was visible resulted in the giving up of the event.

The session of the Southampton Horticultural Society, Thursday evening, October 16th was given over to a stereopticon lecture on Horticulture and Floriculture, by John T. Withers, landscape architect. Our secretary said in his introductory address, "if we do not grow and go forward we miss the purpose for which we are placed here. Our society is trying to lead forward and upward in its sphere; that is the purpose of the speaker of the evening." Mr. Withers began his address with views of some of the familiar shrubs. He showed views of the different stages of the methods of filling cavities in tree trunks and interesting pictures of the large trees of California, followed by scenes in many foreign lands gathered while on a trip around the world in 1910. Mr. Withers is thoroughly versed in his subjects, and an instructive and interesting speaker. Any society that is fortunate enough to procure him to lecture will certainly be elevated and carried forward in horticultural lines.

A HORTICULTURAL PROJECT IN BOSTON.

The outlook for a permanent horticultural building in the Back Bay Fens of Boston looks bright. Certain street improvements and the development of the Fens in the vicinity of the Museum of Fine Arts are urged by the Park and Recreation Commissioners and have the cordial support of Mayor Fitzgerald, who is at all times an advocate of anything tending to horticultural advancement or the expanding of the park facilities for the benefit of the people. Should the contemplated improvements be favored and prompt action taken, as we hope, the city of Boston will have something unique to show to the S. A. F. Convention visitors next August.

Choice Hardy Climbing Roses

THE BEST OF RECENT INTRODUCTION

Prices per 100 F. O. B. West Grove. Strong Field Grown Stock

	1 Yr.	2 Yr.
Alice Aldrich, Rugosa		$12.00
American Pillar	$5.00	15.00
3 Year.. $35.00 and $25.00		
Dr. Van Fleet	7.00	20.00
Dorothy Perkins	5.00	10.00
Dorothy Perkins, White		10.00
Evangeline		10.00
Excelsa	7.50	12.50
Farquhar	6.00	10.00
3 Year $20.00		
Gardenia	7.50	12.50
Hiawatha	7.00	10.00
Lady Gay	7.00	10.00
May Queen		10.00
3 Year $15.00		
Minnehaha	6.00	10.00
Miss Messman		15.00
Northern Light	7.00	10.00
3 Year $12.00		
Rambler White		70.00
Ruby Queen		10.00
3 Year $15.00		
Sir Thomas Lipton, Rug.		12.00
Tausendschon		12.00
Universal Favorite	8.00	
Violet Blue	8.00	12.00
White Dorothy	10.00	

ORDER FOR FALL PLANTING

THE CONARD & JONES COMPANY

BOX H, WEST GROVE, PENNA.

In Writing Advertisers Kindly Mention HORTICULTURE.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.30

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses

FOR FALL PLANTING

Largest Assortment

THE NEW ENGLAND NURSERIES

Telephone Lexington 274 W. BEDFORD, MASS.

Mention HORTICULTURE when writing

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

Lilium Candidum, 18-20 ctms., . . . $3.75 per 100, $35.00 per 1000 **Lilium Candidum,** 20-22 ctms., . . . $4.25 per 100, $40.00 per 1000

Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

Gladstone. Enormous spikes of pure white flowers . . . . . $6.00 per 100, $55.00 per 1000

Queen of Holland. One of the finest; grand florist's variety, white . . . $8.00 per 100, $75.00 per 1000

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 $50.00 per 1000

Can Ship as soon as frost comes to harden them up—about October 12

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS

FRESH COLLECTED STOCK

Just Arrived

Catt. Gigas, August flowering type. Catt. Gigas Sanderiana Mammoth flowering type of April. Catt. Labiata Special collection in flowering season for dark flowers. Dormant leads, well leaved plants. Send for prices. Potted plants in sheath also ready. Orders taken now for early spring growing stock.

FREEMAN ORCHID COMPANY

G. L. FREEMAN, Mgr.

FALL RIVER, MASS.

Mention HORTICULTURE when writing.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent. off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J

LOCK BOX 5

In writing to Advertisers kindly mention Horticulture

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Wholesale Seedsmen's League.

The executive committee of the Wholesale Seedsmen's League met at the Hardware Club in New York city on Thursday, October 16. Among those in attendance were W. Atlee Burpee, Philadelphia. Burnet Landreth, secretary of the league, Bristol, Pa., S. F. Willard of Comstock, Ferre & Co., Weathersfield, Conn., T. W. Wood, Richmond, Va., Lemuel Bowen, of D. M. Ferry & Co., Detroit, and Mr. Hunt, of Jerome B. Rice Seed Co., Cambridge, N. Y. W. C. Langbridge, of Cambridge, N. Y., and Burnet Landreth, Jr., were other seed trade visitors in New York at the time of the meeting.

Resolutions in reference to the death of William Henry Maule were adopted, as follows:

It is with sorrow that we record the sudden death on September 3, 1913, of Wm. Henry Maule. Doing exclusively a business with planters, Mr. Maule's firm was not a member of the Wholesale Seedmen's League. Mr. Maule was, however, one of the original members of the American Seedsmen's Protective Association, out of which this League was formed. He was always active in co-operation with the League's efforts for the betterment of the seed trade. It is fitting, therefore, that we should adopt the following resolution:

RESOLVED, That by the sudden death of Wm. Henry Maule, the seed trade has lost one of its most progressive, useful and distinguished members. The Wholesale Seedsmen's League have lost the sound counsel and hearty co-operation of one with whom it was ever a pleasure to consult.

Wm. Henry Maule was a big-hearted, whole-souled man, and as a faithful, loyal friend he will be greatly missed by a wide circle.

It is our earnest hope and belief that the splendid seed business which he built up may long continue under his name in the fine new building he had just completed and remain an enduring memorial to his ability and integrity of character.

RESOLVED, That a copy of these minutes be sent to his family with expression of our deepest sympathy.

New Zealand Peas.

HORTICULTURE:

Gentlemen: We would like to make a correction regarding the "Crop Notes" in your issue Oct. 18th, which are incorrect and misleading so far as New Zealand peas are concerned. Your correspondent states that peas in New Zealand are harvested about the first of the year, which is not correct. They are harvested during April and March, which correspond in New Zealand—being situated in the Southern Hemisphere—with our months October and November, and are cleaned and prepared for shipment in June.

As shipments from New Zealand to New York take about two months the new crop reaches the United States about August. The surpluses offered now are of crop 1913. They are harvested about six months before the American or European crops, but cannot be called "last year's" and their vitality is at least as good as that of American or European-grown stock.

Truly yours,
F. COOPER, Ltd.
Wellington, N. Z.
Loechner & Co., New York, Agents.

Crop Reports From Denmark.

Hjalmar Hartmann & Co., Copenhagen, report that all the crops of the Danish specialties, as cabbage, cauliflower, sprouts, carrots, garden beets and garden turnips, as well as parsley, radish, spinach, turnips and mangels, and carrots for cattle feeding, are splendid.

The plants had favorable weather during the entire season, particularly during the month of September, which was the finest one in many years. The seeds had ample time for their development, are well ripened and look healthy and plump.

Notes.

Roland Bolgiano has retired from partnership in the firm of J. Bolgiano & Son, Baltimore, Md., and the business will be continued without interruption by Charles J. Bolgiano for his individual account under the old firm name.

Honeoye Falls, N. Y.—The E. F. Dibble Seed Company has just completed a large addition to its seed warehouse, which will double the available floor space. The building is of concrete blocks, 40 x 50 feet, and one story. This will give a shipping floor 130 feet long.

Covington, Ky.—A. R. Miller, of the Covington Seed Co., for the past 17 years conducting the seed business in this city, announces a disposition sale to Goode & Dunkie, who will continue the business as in the past. Mr. Miller will give his entire time in the future to the seed and floral business as the W. R. Miller Sons.

Co-Partnership Notice

RETIREMENT OF PARTNER

Notice is hereby given that Roland Bolgiano has this day retired and ceased to be a partner in the co-partnership of J. Bolgiano & Son.

(Signed) ROLAND BOLGIANO,
CHARLES J. BOLGIANO.

Baltimore, Md., U. S. A.
October 3rd, 1913

Continuance of Business

The business of J. Bolgiano & Son, will be continued without interruption by Charles J. Bolgiano for his individual account, and all debts due or claims against the former partnership should be presented to him.

(Signed) J. BOLGIANO & SON,
By CHARLES J. BOLGIANO.

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

CYCLAMEN SEED.
MICHELL'S GIANT STRAIN

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

Also all other seasonable seeds.

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO. PHILA., PA.

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

JOHN WILK

155 W. 33rd St., NEW YORK

Full Line of Bulbs for Fall Planting

Quality my first consideration

Mention HORTICULTURE when writing

BUY

Gold Medal Holland Bulbs

Our Specialty. Finer Quality Does Not Exist

We Offer for Immediate Planting Choice Selection of Peonies and Japan Iris, all home-grown stock.

Exclusive Agents for Garden Gazing Globes.

Write for Catalogue

J. J. WILSON SEED CO., Inc.

79 Orange St., Newark, N. J.

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas: Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

Mention HORTICULTURE when writing.

REMOVAL NOTICE

We are Now Permanently Located At Our New Address

98 Chambers Street, N. Y.

Between Broadway and Church Street Telephone 6138 Barclay

BURNETT BROS., - Seedsmen

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

FOTTLER FISKE RAWSON CO., BOSTON

LILIES

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

MUSHROOMS

Barter's Peerless Brand

$6.50 100 lbs.

Our treatise how to succeed included

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

NARCISSUS

PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS

1000 per case, $10.00

WEEBER & DON

Seed Merchants, 114 Chambers St., New York

Mention HORTICULTURE when writing

FREESIA

	100	1000
Refracta Alba, ⅜ to ½-inch diameter	$0.60	$4.00

LILIUM HARRISII

	100	1000
5 to 7-in. circumference	$4.00	$35.00
6 to 7-in. circumference	5.00	40.00
7 to 9-in. circumference	7.50	70.00
Roman Hyacinths, 12-15	3.00	28.00
Narcissus, Paper White Grandiflora, 13-15	1.25	8.00

Have you our Florists' Catalogue?

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T 17) NEW YORK, N. Y.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place

NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

ONION SETS

226-230 W. KINZIE STREET, CHICAGO

Write for Prices

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Houston, Texas—Kerr Floral Co.

San Francisco, Cal.—Bellview Floral Shop.

New York City, N. Y.—Krake, 3587 Broadway.

Toledo, Ohio—Metz & Bateman, 414 Madison avenue.

Trenton, N. J.—Rose Floral Co., 25 Middle Rose street.

New Haven, Conn.—Charles M. Myers, 936 Chapel street.

Missoula, Mont.—R. & S. Flower Store, East Cedar street.

Houston, Texas—R. C. Kerr, Main street and McKinney avenue.

STEAMER DEPARTURES

Allan.
Ionian, Montreal-London.....Oct. 26
Corsican, Montreal-Liverpool..Oct. 28
Numidian, Boston-Glasgow....Oct. 31
Pomeranian, M'treal-London..Nov. 2

American.
Philadelp'a, N. Y.-S'hampton..Oct. 31
New York, N. Y.-S'hampton...Nov. 7

Atlantic Transport.
Minneapolis, N. Y.-London....Nov. 1

Cunard.
Carmania, N. Y.-Liverpool....Nov. 1
Lusitania, N. Y.-Liverpool....Nov. 5
Alaunia, Montreal-S'hampton..Nov. 1

French Line.
France, N. Y.-Havre.....Oct. 29
La Touraine, N. Y.-Havre....Nov. 1
La Lorraine, N. Y.-Havre....Nov. 5

Hamburg-American.
Cincinnati, Boston-Hamburg..Oct. 28
Imperator, N. Y., Hamburg..Nov. 1
Patricia, N. Y.-Hamburg.....Nov. 1

Holland-America.
Potsdam, N. Y.-Rotterdam...Oct. 28
New Amst'd'm, N. Y.-R't'd'm.Nov. 1

Leyland.
Winifredian, Boston-Liverp'l.Nov. 1
Devonian, Boston-Liverpool..Nov. 8

North German Lloyd.
Kronp. Wilhelm, N. Y. B'm'n.Oct. 28
Fr. der Grosse, N. Y.-Bremen..Oct. 30
G. Washington, N. Y.-Br'm'n.Nov. 1
Berlin, N. Y.-Mediterranean..Nov. 1

Red Star.
Zeeland, N. Y.-Antwerp.....Oct. 31

White Star.
Baltic, N. Y.-Liverpool.....Oct. 30
Majestic, N. Y.-Southampton.Nov. 1
Canopic, Boston-Mediter'n...Nov. 1
Canada, Montreal-Liverpool...Nov. 1
Cymric, Boston-Liverpool....Nov. 4

New Brunswick, N. J.—The Middlebush Rosery, 341 George street.

Bridgewater, Mass.—Bridgewater Flower Shop, 26 Broad street, Charles S. Cooper, manager.

Portland, Ore.—S. Davis, Washington street; Harry K. Spalding, Theatre Florist, Majestic Theatre.

Azaleas are somewhat tardy in arriving at New York and other ports and importers are kept busy answering inquiries of impatient customers. Receipts this week are heavy but it takes time to get them unloaded and distributed.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
—Bloomingdale's—
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1871
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St.. West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344 - 346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO FLORISTS 1214 F. ST. N.W. WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Petaluma, Cal.—W. J. Hickey has purchased the seed and flower business of M. Vonsen.

Cedar Rapids, Iowa—C. H. Chandler has purchased 234 acres, near Muscatine, and will establish a nursery.

Providence, R. I.—The Miltonia Conservatory is the name of a new company formed for the purpose of importing and growing orchids.

Findlay, Ohio—George Palmer is now sole owner of the establishment of J. J. Waaland & Company. Mr. Palmer had been associated with the firm for some time.

Kansas City, Mo.—John Stevens, former manager of the Sawvel Floral Company, is now one of the firm of Stevens & Hepting, 58th street and Bennington avenue.

Plant and bulb auction sales in the New York auction rooms are exceedingly slow this fall. As soon as colder weather is on tap, and garden flowers frozen up, greater activity is looked for and it is not believed that there will be any surplus in the bulb line.

BE PREPARED
FOR THE
HOLIDAY RUSH
Lay in your stock of Ready-made Paper Pot Covers, Mats, Waterproof Crepe Paper, and Two-toned Scalloped-edge Crepe Paper.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St, Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

THE VINCENT DAHLIA SHOW.

This interesting annual event, which took place week before last at the nurseries of R. Vincent, Jr. & Sons Co., Cowenton, Md., was briefly mentioned in our last issue. Visitors came from far and near and were treated to a most imposing spectacle. Forty-five acres of dahlias were spread out as a carpet and this magnificent scene was supplemented by 55 acres of cannas in dazzling array. All the varieties were marked with their names on prominent labels and a splendid opportunity was thus afforded, which many made the most of, to select such kinds as appealed to their fancy for planting next season. One patch in particular seemed to attract all visitors—where certain of the giant-flowering sorts had been given special care in tying them up to stakes, disbudding to single stems and mulching.

After the visitors had inspected the outside exhibition and entered the immense packing shed, which had been temporarily turned into an exhibition hall, they saw one of the largest exhibitions of cut dahlias ever put up by an individual firm, 20,000 being used to carry out one scheme of decorations alone,—the south wall, 100 feet in length by 66 inches in height completely covered with short-stem flowers in a bed of moss slanting from the front edge of the table to the ceiling This was first covered with pompons or very small dahlias in blocks four feet wide and reaching to the top, the varieties so arranged that the colors blended. Then in a circle in the centers of these blocks were featured a large flowering variety in contrasting size and color to the ground work. Sixteen of such blocks were worked out and at either end of this bank was an immense cornucopia of a light color arranged on a dark background. Golden West and Delice in one, and Master Carl and Jack Rose in the other. In the center of the bank was worked out a design in small yellow and white dahlias. Along the north wall was a similar bank, 80 feet long, in the center of which was a six-foot block of Wm. Agnew, a bright scarlet, as a relief for a large wreath filled with white dahlias loosely arranged and encircling a lyre of small pink dahlias. The remaining part of this bank was filled with solid blocks about two feet square of 88 individual varieties in all classes, Cactus, Decorative, Show, Pompon, Collerette, Century and Peony-Flowered.

In the center of the hall covering what is usually wide tables with a shelf above, but what was now completely concealed, were blocks four feet wide and reaching to the ceiling. Here long-stemmed dahlias were set up in buckets of water and loosely arranged with oak leaves for a back ground, the buckets being also completely covered with the foliage, thus making a very attractive and striking effect. To the left of the main entrance was staged, on the steps leading to the upper floor, a bank of about 1,000 of the Mrs. Chas. Seybold dahlia, a variety of the firm's own introduction of a few years ago.

In the dining room tables were set to accommodate 100 guests, and often they were crowded. A special feature and one worthy of consideration was the neighborhood farm produce exhibit, in which the farmers of this vicinity joined, making up an exhibit worthy of any community.

PERSONAL.

C. F. Meyer, of New York, is away on a Southern trip.

Harry N. Kelley, florist, of Cambridge, Mass., and Miss Mary Curnane were married on October 19.

Otto Heinecken, horticultural agent and importer of New York city is on a business tour in the West.

Harry A. Barnard, who is on an American trip in the interests of Stuart Low & Co., will sail for England on Nov. 5. His present address is Hotel Albert, New York City.

A. Kakuda, of Yokahoma Nursery Co., New York, who has been on a visit to Japan is now homeward bound and is due to arrive in New York, via Chicago, about October 30.

Mr. Louis Vilmorin, a younger brother of Philippe de Vilmorin, head of the French seed house that bears his name, accompanied Mr. Emerich in his annual visit to the United States and is this week calling on the trade in Boston.

Boston visitors—Alfred Emerich and Louis Vilmorin of Paris, France; George C. Watson, Phila., Pa.

Chicago visitors: Paul M. Palez, Little Rock, Ark.; Harry Philpott, Winnipeg, Man.; P. N. Obertin, Kenosha, Wis.

New York visitors—D. Carmichael, representing J. M. McCullough's Sons Co., Cincinnati, O.; George C. Watson, Philadelphia, Pa.; John Canning, Ardsley, N. Y.; Chas. Holland, representing R. & J. Farquhar & Co., Boston; Henry M. Robinson, Boston.



A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies – the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition — fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.
669 LAKE STREET KENDALLVILLE, IND.

A TRIBUTE TO FATHER.



A Resolution Introduced Recently in Congress Designates the First Sunday in June as Fathers' Day, with the Rose Its Emblem—Wouldn't It Have Been More Appropriate if the Day Named Had Been in December?—*Boston Traveler, October 8, 1913.*

ST. LOUIS NOTES.

William Dee and Miss Marie L. Lammers, old employees of C. Young & Sons Co., were married last week.

Grimm & Gorly will early next month open a branch retail store in East St. Louis, Ill. A good location has been selected.

William Holtz who has been sick the past few weeks is again at work at the Angermuller wholesale store and his many friends were glad to see him.

R. Marshall of Minneapolis, will lecture before the St. Louis Florist Club and the Growers' Club at their next meeting on Economy in Greenhouse Heating. Mr. Marshall is an expert heating engineer from England.

Robert J. Windler, has returned from a 15 days' visit to Chicago and called a meeting of the Florist Club Publicity Committee of which he is chairman, at the Windler Wholesale Floral Co.'s store on Tuesday night, Oct. 21st.

Visitors—E. C. Pruner of Poehlmann Bros. Co., Chicago; R. Marshall, representing the Dahl-Mo-Stat Co., of Minneapolis, Minn; F. Lempke of W. W. Barnard Co., Chicago.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

CHRYSANTHEMUMS

Dozen, $1.50-$3.00.
White, Pink and Yellow in Quantity.

CATTLEYAS

$6.00 per dozen; $40.00 per 100.
All Large Selected Flowers.

IRISH FIRE FLAME

We can furnish this novelty now in quantity.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the **BOSTON**

Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago

RUSCUS AND RUSCUS WREATHS

Write for Samples and Prices

POEHLMANN BROS. CO., 72-74 E Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 13	CHICAGO October 20	BUFFALO October 20	PITTSBURG October 20
Am. Beauty, Fancy and Special	20.00 to 25.00	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00
" " Extra	15.00 to 20.00	20.00 to 25.00	10.00 to 15.00	15.00 to 18.00
" " No. 1	10.00 to 15.00	15.00 to 20.00	7.00 to 10.00	8.00 to 12.00
" " Lower Grades	4.00 to 8.00	8.00 to 12.00	3.00 to 4.00	3.00 to 5.00
Killarney, Extra	4.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00	3.00 to 4.00
Maryland, Ward, Taft, Carnot, Extra	6.00 to 10.00	6.00 to 10.00	4.00 to 6.00	6.00 to 10.00
" " " Ordinary	..... to	3.00 to 5.00	3.00 to 5.00	3.00 to 4.00
Carnations, Fancy Grade	..... to 2.00	..... to 3.00	2.00 to 2.50	..... to 3.00
" Ordinary	..... to 1.50	2.00 to 2.50	1.00 to 2.00	1.50 to 2.00
Cattleyas	..... to 50.00	40.00 to 50.00	40.00 to 50.00	30.00 to 50.00
Lilies, Longiflorum	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00	12.50 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	..... to 4.00	3.00 to 4.00
Orchids	12.50 to 15.00	8.00 to 15.00	15.00 to 20.00	4.00 to 25.00
Violets	.35 to .50	.35 to .75	.50 to .60	.35 to .75
Daises	..... to	1.00 to 1.25	.75 to 1.00	1.00 to 1.50
Gardenias	..... to	..... to	..... to	..... to .....
Adiantum	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.25
Smilax	..... to 12.50	15.00 to 20.00	..... to 15.00	15.00 to 20.00
Asparagus Plumous, Strings (100)	25.00 to 40.00	25.00 to 50.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)	15.00 to 25.00	25.00 to 50.00	25.00 to 50.00	35.00 to 40.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly Mention HORTICULTURE.



GARDENIAS

Probably no flower is as delicate or as easily bruised or made unsaleable by a blemish as quickly as a Gardenia. We are handling these in the original boxes thus insuring our customers perfect blooms, of which we have a splendid supply of the very choicest quality. $3.00 per dozen.

CHRYSANTHEMUMS: First cuts of Bonnaffon week of October 27th; $2.00, $2.50 and $3.00 per dozen. Plenty of other varieties—pinks, whites and yellows, $1.00, $1.50, $2.00, $2.50 and $3.00 per doz.

POMPONS: $2.50 per dozen bunches; $15.00 per 100 bunches. Write for our special on Pompons, choice varieties, quite a number of them novelties.

CATTLEYAS: Special $6.00 dozen, $40.00 per 100; Extra $4.00 dozen, $25.00 per 100; First $2.50 dozen, $15.00 per 100.
Third grade quoted are perfect flowers but small size. Special prices in large quantities

VALLEY: Special $4.00 per 100; Extra $3.00 per 100.

VIOLETS: Hudson River Doubles, 50c per 100.

HEADQUARTERS FOR GREENS

WILD SMILAX; $5.00 per case.
BRONZE GALAX, $2.00 per 1000.
GREEN GALAX, $1.00 per 1000; $7.50 per 10,000.
GREEN LEUCOTHOE, new crop, $1.00 per 100; $7.50 per 1000.
AUTUMN FOLIAGE, 50c. per bunch.
GREEN SHEET MOSS, $2.50 per bag.
ASPARAGUS STRINGS, 50c. each.
ASPARAGUS AND SPRENGERI, bunches, 50c. each.
SMILAX, 20c. per string. Cut Hemlock, $2.50 per bundle.
HARDY DAGGER FERNS, best quality, large fronds, $1.50 per 1000.
SPHAGNUM MOSS, burlapped, 10 bbl. bales, each, $3.75; 5 bale lots, $3.50 each; 10 bale lots, $3.25 each.
MEXICAN IVY, $1.00 per 100; $7.50 per 1000.

RIBBONS AND SUPPLIES. Many new patters in exclusive Ribbons. If you did not receive one of our new Catalogues, advise us and we will be glad to mail you a copy.

BUSINESS HOURS FROM 7.30 A. M. TO 6.00 P. M.

S. S. Pennock-Meehan Co.

THE WHOLESALE FLORISTS OF PHILADELPHIA

PHILADELPHIA 1608-20 Ludlow St. | NEW YORK 117 West 28th St. | BALTIMORE Franklin & St. Paul Sts. | WASHINGTON 1216 H St., N. W.

P M QUALITY

In Writing Advertisers Kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON The salient points about this market at present writing are the increasing quantities of chrysanthemums and the scarcity of violets. The former is easily understood but the latter is somewhat of a mystery as the weather has not been unfavorable for their blooming as we understand their requirements to be. The chrysanthemums, although very abundant, are far from being up to exhibition stature yet and the best offered are but medium commercial quality as compared with what are on sale in New York, for instance, this week. But they are really more salable for general use than are the top-notchers. Lilies are scarce and bring full value. Lily of the valley good and selling satisfactorily. Carnations getting plentiful, quality improving and sales quite brisk. In roses there is a little overstock on white sorts. The improved Killarneys, also the novelties such as Mrs. Russell and Hadley and the red Cardinal hold the leadership, Cardinal seeming to oust Richmond from its position as the most desirable red. American Beauty is holding its own nicely. Cattleyas are in good supply and excellent quality. Trade, as a general thing is fairly good in this market and little fault-finding is heard on any side.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON October 23			ST. LOUIS October 20			PHILA. October 20		
Roses									
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	15.00	to	17.50
" " No. 1	6.00	to	8.00	10.00	to	12.00	10.00	to	12.50
" " Lower Grades	2.00	to	4.00	2.00	to	5.00	4.00	to	8.00
Killarney, Extra	5.00	to	8.00	5.00	to	6.00	4.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	3.00	1.00	to	3.00
Richmond, Hillingdon, Extra	5.00	to	8.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	2.00	to	4.00	2.00	to	3.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	5.00	to	8.00	6.00	to	8.00	5.00	to	10.00
" " " " Ordinary	2.00	to	4.00	2.00	to	4.00	1.00	to	4.00
Carnations, Fancy Grade	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	1.00	to	1.50	1.00	to	1.50	1.00	to	2.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	15.00	to	50.00
Lilies, Longiflorum	10.00	to	12.00	10.00	to	12.50	8.00	to	12.50
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Chrysanthimums	6.00	to	16.00	8.00	to	20.00	3.00	to	25.00
Violets	.50	to	.75	.25	to	.35	.20	to	.75
Daises	.....	to	1.00	.....	to	.....	.50	to	1.00
Gardenias	15.00	to	25.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	25.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	15.00	to	35.00	35.00	to	50.00

BUFFALO The receipts have been heavy throughout the whole week. On Saturday the long looked for clean-up day, a heavy rain set in and continued for the first of this week. Dahlias and cosmos were still coming in heavy and there were a lot of chrysanthemums of all grades and colors of the early varieties of which sales were not of the best. Some choice Halliday and a few large varieties touched the 25c. mark. There is an oversupply of roses and also violets, considerable lily of the valley and orchids and everything along the line is in large supply. Lilies have again shortened, though there is no special demand.

CHICAGO The market for the last week has been fairly active. Roses have continued in large supply. In the early part of last week stock was accumulating a little faster than was comfortable for the wholesale market, but with colder weather prevailing towards the close of the week the surplus was disposed of at fair prices. Roses of all kinds are improving in quality and are now nearly up to winter standard. Both pink and white Killarney are abundant, the former being of excellent color. Richmond is not quite as plentiful as it has been

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 1468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 18 1913	First Half of Week beginning Oct. 20 1913
Cattleyas	15.00 to 35.00	15.00 to 35.00
Lilies, Longiflorum	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	6.00 to 35.00	6.00 to 35.00
Violets	.15 to .50	.15 to .50
Daises	..... to .50	..... to .50
Snapdragon	.... to	..... to .....
Gardenias	12.00 to 25.00	12.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 15.00
Asparagus Plumosus, strings (per 100)	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1661 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V. Pres. JOSEPH MARGOLIS, Secy.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Flower Market Reports

(Continued from page 577)

but there are enough of all grades to meet requirements. Sunburst and Ward are coming in quite freely and prove good sellers. The quality is excellent for the newer sorts. A limited quantity can be had of such varieties as Shawyer, Mrs. Taft, Milady and Russell, the latter appearing to be well off crop at present, however. Beauties are less abundant than they were a week ago. Most of the stock on the market consists of the extreme long-stemmed grade. The shorter length are scarce. Carnations continue extremely scarce and the market is unable to supply the demand. Quality and length of stem are rapidly improving. Chrysanthemums are much more plentiful but the better grades sell readily at good prices. On the other hand, there is a large offering of smaller and inferior stock which can be had at very low figures. Lilies are fairly abundant and so is lily of the valley; both items are in good demand. A few fairly good callars are noted. Violets (Eastern) are arriving in increasing numbers but the quality leaves much to be desired.

CINCINNATI This week the weather man opened with miserable, rainy weather and followed with cold weather that up to the time of this writing was down almost to the freezing point at night. This combination of circumstances probably puts an end to the dahlias and cosmos for the year and will give the heavy shipments of chrysanthemums that are coming in, as well as large quantities of other stock, a chance to sell at a fair price. The heavy inrush of chrysanthemums started towards the close of last week and prices on this flower dropped proportionately at once. The rose supply is still very large and more than able to take care of all requirements. The same is true of long American Beauties. Short and medium Beauties are not very plentiful and have been cleaning up nicely. The carnations are getting better right along and the cut is adequate for present requirements. Both lily of the valley and orchids are proving good property. Giganteum lilies are on the short side of the market but because of the large supply of other flowers, especially chrysanthemums, they enjoy no particular demand. New boxwood has been added to the green goods supply.

NEW YORK At least once in every fall season there comes a period of surfeit in this market, when all circumstances of weather and production seem to conspire with fiendish unanimity to deluge and dumfound—when growers and wholesalers simply throw up their hands in dispair. This week is that time for 1913. As usual it came with precipitate suddenness and as usual the chrysanthemum plays a leading part in the wanton performance. It is not often, however, that the dahlias and other outside products can strike such an overwhelming alliance with the chrysanthemums and the first big flush of other greenhouse material as they have this year. Just how long it will last no one can foretell. News of wintry weather in the west and headed eastward furnishes a basis of hope for the more optimistic but we can't see how any possible weather vagaries can materially affect the situation just now. There is not much going on in the retail line either but whatever of business the retailer does gather in is mighty profitable, for he can get the material for a song and in the prevailing abundance of everything he need not assume any risk in carrying stock. Quality appears good on all lines, much more so than the recent sunless and damp weather would seem to warrant; but much of what is now coming on can hardly fail to be soft of texture and short-lived.

PHILADELPHIA Conditions last week were about the same as the week previous; probably there was not quite as much outdoor stock as the preceding week but there was entirely too much to make good flower conditions. Dahlias were probably not quite as plentiful and the demand less. Not only the store people but the public in general seem to be getting rather tired of dahlias, especially as chrysanthemums are getting more plentiful. Chrysanthemums have been in a tremendous oversupply of the poorer qualities, particularly pinks. Good specimen flowers have been rather scarce, not enough for the demand. There is a market for a good white that would come in about the same time as Chrysolora. Pompons are starting to come in and are selling right well although not any large variety so far. Beauties, still plentiful, demand fair. Mrs. Russell rose is coming in rather stronger and the demand is very good. This is a novelty rose that is a splendid success and from present indications it will be a good commercial rose for the future. In the Killarneys the White Killarney sells probably about as well as any. Other roses are selling fairly well and the supply is more than equal to the demand. Carnations are a little more plentiful than they were but are still on the scarce side and prices hold fairly stiff. Lilies are considerably in excess of the demand. Orchids—mainly cattleyas coming in—are selling fairly well, particularly considering the quantity received but at moderate prices. Gardenia supply light and demand fairly good. Lily of the valley plentiful, some days moving well, other days not as good. Taken as a whole the tone of the market is better and an improvement over the preceding week and indications are that it will continue to get better.

ST. LOUIS All that can be said of the local cut flower market for the last week is that every thing was plentiful—in fact a glut. The commission man says that the retailers bought quite heavily some days, but hardly enough to make an impression.

The mild weather has a great deal to do with this. The great quantities of fancy dahlias and increasing shipments of chrysanthemums detracted from the roses and carnations causing the commission man a great deal of worry, and compelling greatly reduced prices which caused a lot of bargain sales among the florists down-town.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Oct. 18 1913	First Half of Week beginning Oct. 20 1913
American Beauty, Fancy and Special	12.00 to 25.00	10.00 to 20.00
" " Extra	8.00 to 10.00	8.00 to 10.00
" " No. 1	5.00 to 6.00	4.00 to 6.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 6.00	3.00 to 6.00
" " Ordinary	.50 to 2.00	.50 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 8.00	4.00 to 8.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.50	1.50 to 2.50
" Ordinary	1.00 to 1.50	1.00 to 1.50

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

ATTENTION If you wish Dark Green and Fresh Cut EVERGREENS, finest quality Selected Stock. Laurel Branches, 2x2x4 ft. case, $2.50 per case; Pine Plumes, $2.75 per case; Laurel Stems, large bag, $1.00. Try our Cedar Boughs, only $2.25 per case. Once used always used. Holly Wreaths, well berried. Holly by the case and bag in season. Order in advance. Address LOCK BOX 5, Watertown, N. J.
Mention HORTICULTURE when writing

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

W. W. Edgar Co., Waverley, Mass.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh. Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

O. F. Searles, Box 288, Nashua, N. H.
Bedding Plants—Rooted Cuttings.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BERRIED PLANTS

Frank Oechslin, 4911 Quincy St., Chicago, Ill.
Christmas Peppers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

BOILERS—Continued

Lord & Burnham Co., 1133 Broadway, N..Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Lilium Candidum and Other Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

J. J. Wilson Seed Co., Inc., 79 Orange St., Newark, N. J.
Gold Medal Holland Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

To close out. Brooklyn Field Plants: First size, $4.00; smaller, $3.00. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

500 Especially Fine, Stocky, Clean, Field-grown Winsor Carnation Plants, $5.00 per 100. M. M. MICHAEL, Dansville, Livingston County, N. Y.

Extra fine field grown Enchantress, $4.00 and $3.00 per 100 (cash), while they last. This is what Mr. Ellis, Chettenango, N. Y., writes: "Received plants, which were extra fine. Am very well pleased with them. If everyone would fill orders to please like that we would all be better off." M. J. SCHAAF, Dansville, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUM, THE. By A. Herrington. The author has endeavored to assist and direct the efforts of those who would grow and excel in producing perfect chrysanthemum flowers, showing that not in secret arts and practices, but in plain course of procedure are the desired results attained. Illustrated, 100 pages. Price 50 cents.
Orders filled by HORTICULTURE, 11 Hamilton Place, Boston.

W. W. Edgar Co., Waverley, Mass.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash. J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland. Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

W. W. Edgar Co., Waverly, Mass.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 559

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
Gladiolus America.
For page see List of Advertisers.

GLADIOLUS—Continued

100,000 Giant Flowering Childsi and Silver Trophy Florists' Lt. Mixt., small sizes, $2.50 to $6.00 per 1,000. Bulblets, 50c. per qt. All clean northern grown stock. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

Lock Box 5, Waretown, N. J.
For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

IRIS

Fox Hall Farm, R. F. D. 2, Norfolk, Va.
Japanese and German.

JERUSALEM CHERRIES

JERUSALEM CHERRIES—Fra Diavolo, from 4-in. and 5-in. pots, loaded with berries and blossoms, $6.00 and $7.00 per 100. MONADNOCK GREENHOUSES, Keene, N. H.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Cold Storage.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MUSHROOM SPAWN

Weeber & Don, 114 Chambers St., New York.

In writing to Advertisers kindly mention Horticulture

NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.

ONION SETS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS
Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PANSY SEED
W. Elliott & Sons, 42 Vesey St., N. Y.

PEAT
J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS
August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIAS
W. W. Edgar Co., Waverley, Mass.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES
Miller's Giant Obconica Primula — Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIMULAS—Malacoides, 3-in., ready for 4-in., $5.00 per 100. Chinese Primroses, 2-in., Benary's best strain, $2.00 per 100. MONADNOCK GREENHOUSES, Keene, N. H.

PRIVET
Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS
McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa
For page see List of Advertisers

ROSES
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa
For page see List of Advertisers.

ROSES—Continued
Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Conard & Jones Co., West Grove, Pa.
Choice Hardy Climbing Roses.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

RUSCUS AND RUSCUS WREATHS
Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Everett B. Clark Seed Co., Milford, Conn.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

For List of Advertisers See Page 559

SEEDS—Continued

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Minor—Perfectly hardy; Evergreen Vine, useful for growing under trees where grass will not grow, for binding banks to prevent washing; strong transplanted plants, which may be divided, $3.00 per 100, $25.00 per 1000; rooted layers, $1.50 per 100, $10.00 per 1000. E. Y. TEAS, CENTERVILLE, IND.

VIOLETS

Violets from field—Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

Governor Herrick, extra large clumps, clean and healthy, $4.00 per 100. Cash with order. C. W. MOECKEL, Fitchburg, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

ASPARAGUS HATCHERI AND CYCLAMEN SEED.
Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

BULBS FOR FALL PLANTING.
John Wilk, 155 W. 33rd St., New York.
For page see List of Advertisers.

CO-PARTNERSHIP NOTICE.
J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

FALL SPRAYING MATERIAL.
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GARDENIAS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

HOLIDAY GOODS.
M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

MAMMOTH NARCISSUS BULBS.
Weeber & Don, New York.
For page see List of Advertisers.

MUSHROOM SPAWN.
Wm. Elliott & Sons, New York.
For page see List of Advertisers

NURSERY STOCK FOR FALL PLANTING.
New England Nurseries, Bedford, Mass.
For page see List of Advertisers.

ORCHIDS.
Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

SCALECIDE.
B. G. Pratt Co., Dept. 12, 50 Church St., New York City.
For page see List of Advertisers.

STOCK CHRYSANTHEMUM PLANTS.
Harlowarden Greenhouses, Greenport, New York.
For page see List of Advertisers.

TABLE FERNS.
Frank Oechslin, Chicago, Ill.
For page see List of Advertisers.

FUNGINE

An Infallible remedy for mildew on roses, chrysanthemum and carnation rust, bench rot and various other blights which affect flowers, fruits and vegetables.

It is applied by spraying the foliage. Fungine being readily soluble in water, contains no sediment and unlike Bordeaux and lime and sulphur, will not stain but cleanses the foliage.

Fungine is an excellent fungicide for greenhouse plants.

75c. Quart—$2.00 Gallon—10 Gallon Keg, $15.00

VERMINE

A soil sterilizer and vermicide for cut, eel, wire worms, root maggots and all vermin working under the soil. It is applied by thoroughly soaking the ground with one part Vermine to 400 parts water and is not injurious to vegetation. An excellent sterilizer, more economical and less laborious than sterilizing with steam and hot water pipes.

$1.00 Quart—$3.00 Gallon—5 Gallon Keg $12.50

FOR SALE BY SEEDSMEN.

Manufactured by

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

NIKOTIANA—APHINE—SCALINE

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

WANTED -Position as superintendent of private estate or public grounds. Highest references as to ability and character. Address "G. S.," care HORTICULTURE.

SITUATION WANTED—By competent man experienced in greenhouse as well as outside work. Married. Good references. Address "S. W.," care HORTICULTURE.

SITUATION WANTED—As head gardener. Thorough knowledge of outside work and under glass. German, not married. Good references. Address "H. F.," care HORTICULTURE.

POSITION WANTED by young man having good Botanical and Scientific knowledge, with over 14 years practical gardening experience in England and America, including 4 years in the Royal Gardens, Kew. Box 11, Newport, R. I.

FOR SALE

FOR SALE—$1800 buys this nice greenhouse, 160x30 feet, with plant house 20x20 feet. Boiler house 14x20 feet. 30 horsepower steam boiler in good condition. Glass 16x24 inches, double thickness. House conveniently located on good street in thriving city and adapted for either flowers or vegetables. Sufficient land for more houses if desired. Owner has other business and desires to sell. Enquire of GEO. J. PETHYBRIDGE, 738 Ashburnham St., Fitchburg, Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

CINCINNATI NOTES.

William Ruttle of Latonia was married last week.

A new retail floral store has opened in this city on Main street. The Main Floral Co. are the proprietors.

A party from Louisville composed of Jacob Schulz, A. Rasmussen and brother, H. Kleinstarink and F. Walker motored to this city a few days ago.

Visitors—N. C. Laurence, Atlanta, Ga.; S. M. Currier, Chillicothe, O.; C. E. Hillman, representing the Johnston Tin Foil & Metal Co., St. Louis, Mo.; H. V. Thomas, Augusta, Ky.; H. G. Behrens and Mr. and Mrs. G. A. Beckman of the Busy Bee Floral Co., Middletown, and S. Fine, representing Zinn & Co., New York, N. Y.

NEW CORPORATIONS.

Tacoma, Wash. — Morisse Seed & Nursery Company. Trustees, Carl F. Morisse, W. L. Nasmyth and H. E. Thompson.

Urbana, Ohio.—Urbana Floral Co., $25,000; Roger H. Murphey, Charles R. Murphey, John M. Good, Frank E. Good and H. F. Good.

Crosby, No. Dak.—Divide County Nursery Co., capital stock $15,000. Incorporators, Edwin Bondo, Ambrose; Ludwig Palm, Ambrose; Alfred M. Johnson, Crosby.

Elyria, Ohio—Horticultural Selling Company, to deal in shrubs and landscape gardening, capital stock $10,000. Incorporators, W. P. and C. D. Bates, D. Y. Robertson, S. O. Weldon and A. E. Lawrence.

THE GARDENER AND HIS FIELD.

(Extracts from a paper read by M. C. Ebel, before the Gardeners' and Florists' Club of Boston.)

A Misnomer.

"The title, 'Private Gardener,' to my mind is a misnomer; and the sooner the professional gardener rids himself of it the sooner I believe he will come into the rank to which he is rightfully entitled. The dictionary defines 'private' as meaning 'peculiar to, belonging to, or concerning an individual only,' and 'professional' as meaning, 'pertaining to, or appropriate to a profession or calling.' So does it not appeal to you that the title, 'Professional Gardener,' is the more dignified of the two and one which distinguishes him as one of a profession?

Recognition Needed.

"A great problem confronting the profession just now is how to properly bring to the knowledge of people who employ gardeners, the ability of the practical gardener. By this I mean, the one who is thorough in his profession, and what such a gardener can accomplish if given a fair opportunity to exercise his ability. Possibly I should modify this statement and say—again bring to their attention—for I disclose nothing new to those familiar with the experience of many estate owners who have become disgusted with the profession as a whole over rascalities practiced in the management of their establishments—or mismanagement—by men not truly representative of the profession and through which many excellent opportunities have been lost to conscientious gardeners, and honest men made to suffer.

Two Essentials.

"There are two vital essentials lacking between the average estate owner and his gardener,—and one is the failure of the owner to encourage his gardener in the good work he may be doing. Many of them are inwardly pleased, but will never openly manifest it in the presence of the gardener and we all know that a little merited praise is appreciated by all men. The other is the hesitancy on the part of most gardeners to take the initiative to do things. You may have a close employer, not disposed to spend money, but if you will accomplish something for nothing to arouse his interest, the chances are that if he has means to do so he will eventually open up to permit you to accomplish more for him. And some may have a liberal employer who would spend more freely if you took the initiative to instruct him how he can spend to advantage.

The Other Side.

"You must not overlook the fact, however, that this country has for several years past been encumbered with poor milionaires, men whose resources are tied up in non-productive securities. To some of you your employer may appear to have had a change of heart and to have become possessed of a hoarding spirit, but I think you will find them to be the same liberal spenders when their income flows more freely again. Remember, also, that a gentleman's estate is a luxury which is apt to seem awfully luxurious to him when he finds it difficult for lack of resources to properly maintain it, and at such times you must not expect him to spend money when he can get along without doing so. Under such circumstances just shift from nature studying to studying a little human nature and then do the best you can to please under conditions as they exist. In most instances you will find it will be appreciated when times do not seem so hard.

Mistakes.

"I am aware that all owners of private establishments, who require the services of professional gardeners, are not alike and that many are unreasonable in their demands and expect much more than they are entitled to for the compensation the gardener receives, and where, no matter how much a man may strive, appreciation is never manifested. Where a gardener comes in contact with such a character, let him do the best he can while he serves him, await his opportunity where his services may be more appreciated and when it comes, grasp it.

"Study the disposition of those you serve and cater to their fads and fancies. If called on to transform a beautiful front lawn into a cabbage patch, or to turn it into a pasture for cattle grazing, proceed with as much good grace as possible, realizing that while

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE

NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP" BRAND Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Jobbers. Write for prices

Don't Neglect Fall Spraying

"SCALECIDE"

Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF.

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "12", 50 Church Street, New York City.

MAK-GRO ODORLESS PLANT FOOD

For Florists and General Greenhouse Work

A Scientific, Improved, Concentrated, Quick Acting, Complete Fertilizer made in *Non-Acid Granular Form* from the highest grade materials obtainable.

Especially adapted to

GREENHOUSE WORK
Vegetables, Fruits and Flowers

Special Formulas for General and Special Greenhouse Crops; prepared by men who have made a life study of Greenhouse work—not only in this country but abroad.

The services and advice of our experts is at your disposal on all matter pertaining to your Greenhouse problems.

MAK-GRO ODORLESS PLANT FOOD

Is put up in various sized packages, and sold in lots of from

ONE POUND TO CARLOADS

The one pound cans and small packages make a splendid side line for Florists having their own stores.

Write us for further particulars.

DEPT. 5

CONSUMERS FERTILIZER CO. Long Acre Building NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

FALL SPRAYING

Fruit trees, ornamental trees, evergreens, and all hardy stock susceptible to scale and other insects should be thoroughly sprayed before freezing weather sets in.

SCALINE will cleanse your trees and shrubs of San Jose, Oyster Shell and other hard scale, red spider, larvae of the aphis, grub of the locust borer, and other insect pests which secrete themselves in the crevices of the bark during the dormant season.

SCALINE is composed of a high grade of petroleum and the properties of the well known fungicide, **FUNGINE**; mixes readily without agitation; is used at a strength of one part to twenty parts water; containing no sediment can be applied through the finest spray nozzle, and requires no drenching of the plants, but simply misting them, to get effective results.

Gallon, $1.50; 10 gallons, $10; 50 gallons $37.50.

We answer inquiries.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — VERMINE
NIKOTIANA

Mention HORTICULTURE when writing



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**
APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N. Y.

it is quite contrary to your good taste, you are only carrying out the wishes of him who is 'paying the piper.'

Personal Appearance.

"I may become a little personal by venturing on personal appearance as it effects the gardener, but it is solely in his interest. I come in contact with many gardeners while they are engaged in their work and what I am about to refer to I admit is the exception rather than the rule, but I allude to it as an essential to professional progressiveness. In my travels I, at times, find gardeners quite efficient in their profession, but who lack in their own general appearance, and are quite thoughtless as to some of their habits while occupied in their vocation. Now appearances count for much in this world, and personal appearance, not gaudiness but neatness, makes a favorable impression wherever practiced. The gardener with a 'good front' is likely to come into closer personal contact with his people than the gardener who lacks it. Only a few days ago I was told of a family returning recently from abroad where it had been visiting some of the extensive private estates found on the other side and probably enthused with some of the old country ideas, which informed its gardener that it would prefer to have him engage additional labor to do the plodding so that he could clothe himself more fittingly and be presentable to the guests in future and at the expense of the family. But the old man, long with the family, begged that he be permitted to continue to plod, that he could not accustom himself to fine clothes. His request was granted, but you can count on it, not getting what they want it is only a question of time before these people will become dissatisfied.

The Young Gardener and His Future.

"I cannot refrain from saying a word to the young and ambitious men in the profession. So much has been heralded in the near past respecting the essentials requisite to make one a real gardener that I shall not dwell on it long. But of the practical gardener of the future much will be demanded. He must possess executive power, knowledge of every phase of floriculture, horticulture and agriculture, must have ability to handle men, and in general be a good business manager. This means that he must be possessed of theoretical knowledge as well as practical experience, and he must count on having to contest with the young men favored with college opportunities. I, however, am a firm believer that our real gardeners of the future, as of the past, will be the self-made, those with ambition to seize every chance to learn by practical experience during the day, gaining their theoretical knowledge by study of books at night and during the spare hours, constantly on the alert to advance, and thus by combining practice and theory will become thoroughly efficient in their profession. There are, however, on the other hand, many young men who have taken up gardening imbued with the idea that a year of apprenticeship, another year as an assistant—and then a full-fledged gardener. They will have gained just a sufficient smattering of what gardening constitutes to spoil what they may undertake if they obtain a head gardener's position, and some of them occasionally manage to with the result that they do not make good."

OBITUARY.

Edward L. Pierce.

Edward Leroy Pierce, president and general manager of A. H. Hews & Co., Inc., pottery manufacturers, of Cambridge, Mass., died on Friday morning October 17, aged 35 years, after a long period of failing health. Mr. Pierce was born in Barre, Mass., Jan. 10, 1878. For the past thirteen years he has been employed in the Hews establishment having started as a bookkeeper with the late A. H. Hews. After the death of Mr. Hews when the business was incorporated, 1904, he became vice-president of the company and in 1910 he succeeded to the presidency. During his association with the establishment he made a most excellent record as a progressive business man and executive officer. He was greatly beloved by the employees



EDWARD L. PIERCE.

of the company and was held in highest esteem by all with whom he came in contact in business and social matters and his demise in the midst of his usefulness and popularity is a great loss to the community and the trade. He leaves a widow, mother and one brother.

The funeral was held on Sunday afternoon at Mt. Auburn Cemetery Chapel, under the auspices of Charity Lodge, A. F. & A. M., of Cambridge, of which Mr. Pierce was Worshipful Master. The pall bearers were from the New York, Cambridge and Boston offices of A. H. Hews & Co.

John B. Byer.

John B. Byer, a member of the firm of Byer Bros., florists, at Chambersburg, Pa., died on October 5, aged 83 years.

Robert Kinkaid.

Robert Kinkaid, well known as a florist and landscape gardener, died on October 11, at his home in Germantown, Pa., aged 45 years. For some time he had suffered from Bright's disease.

W. T. James.

W. T. James of Bermuda, brother of Harley James and well known in the St. Georges Bermuda lily industry, died at Halifax, N. S., last week.

GREENHOUSES BUILDING OR CONTEMPLATED.

Middleton, N. Y.—B. H. Cullen, two houses.

Belvidere, N. J.—Alex. Shrieve, conservatory.

Bridgeport, Conn.—F. C. Forhenbach, one house.

Denver, Colo.—Fred Maier, two houses, each 25 x 200.

Wilkesbarre, Pa.—A. W. Moore, Park avenue, alterations.

Indianapolis, Ind.—Wm. Roepke, E. Washington street, two houses.

McHutchison & Co., 17 Murray street, New York, have prepared a neat wall hanger giving the new official tariff rates on all horticultural import goods. This very useful card has been mailed to some 3,000 correspondents by Messrs. McHutchison & Co., but anyone who has not received a copy can get it by writing to their address.

It's a KinG
IDEAL BOILER
that you want in your
GREENHOUSE
This boiler is especially built to burn soft coal, is Smokeless
and saves 1-3 of the season's fuel bill. King Greenhouses, Boiler, Garden Frames, etc., are all money savers. Write for reasons.
KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N. Y.
All the Sunlight All Day Houses.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.


DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

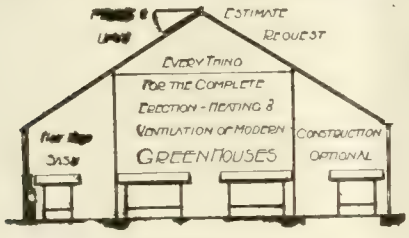
Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER
POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Syracuse Red Pots
With new and improved machinery, we can supply your wants to better advantage than ever.
Special discounts on large orders.
Syracuse Pottery Co., SYRACUSE N. Y.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

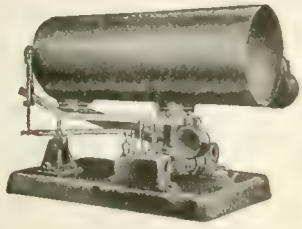
MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

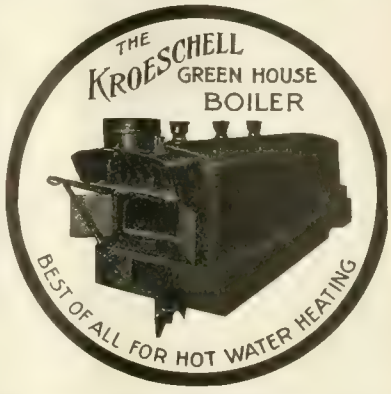
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.





CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



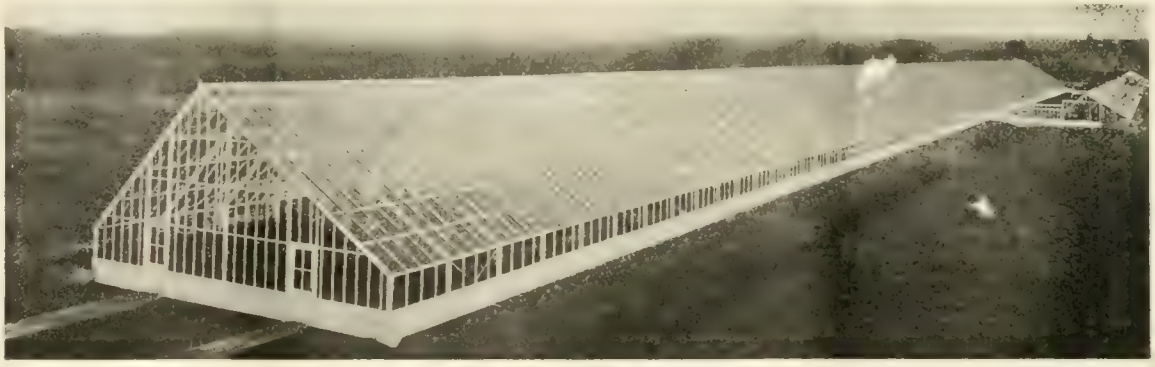
You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.
Mention HORTICULTURE when writing

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



A 1000 foot L. & B. Iron Framer at the Waban Rose Conservatory, Natick, Mass.

The Relation of Light to Greenhouse Culture

Being extracts from a series of experiments made by the Mass. Agricultural Experiment Station.

IN July, The Mass. Agricultural Experiment Station published a Bulletin making for the first time public — the results of a series of exhaustive experiments conducted by them for the past few years.
Many of the results are so intensely vital to greenhouse owners and prospective builders, that we have made selections here and there from the text and are giving them below.

1. Lack of light is responsible for many greenhouse diseases.

2. The old type of greenhouse was crude in construction, especially as regards light. The modern tendency is to build larger houses; to use stronger material, casting less shade; and to use larger and better quality glass.

3. Large houses can be constructed relatively more cheaply and managed more easily because there is a less rapid change of atmospheric conditions, etc. This helps to eliminate many greenhouse troubles.

4. Morning light is more intense than afternoon light, our experiments showing a difference of 10 per cent, and ranging as high as 30 per cent for some houses.

5. The location of a house as regards points of the compass has a bearing on the practice of syringing plants, the yield of the crop, and to a certain extent on fungus infection.

6. To obtain the best results in a house running East and West, the house should be from 15 to 30 degrees North of East. This enables the plant to take advantage of the more intense morning light and the crop can be syringed with less danger from infection.

7. There appear to be no important differences in the light in a greenhouse at different distances from the glass, practically the same light being obtained at 5 feet as at 30 feet.

The Experiment Station Bulletin contains over forty pages devoted to the subject. You should read it from cover to cover.
The Experiment Station has just written us that they will be very glad to mail copies of the Bulletin to all who may write for them.

Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. NOVEMBER 1, 1913 No. 18



SORBARIA ARBOREA

A New Hardy Garden Plant from Western China.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Finest Plants Ever Offered

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING

Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.
Mention HORTICULTURE when writing

We grow large quantities of

Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List

R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

STOCK CHRYSANTHEMUMS

PLANTS CHEAP TO CLEAR BENCHES. 20,000 Chrysolora, Golden Glow, Halliday, Unaka, Wells Late Pink, Chas. Razer, Syme, Gloria, Pacific Supreme, Snow, Robinson, $2 per 100, any 500 for $9.

R. C. Carnation Enchantress Supreme $4 per 100.

HARLOWARDEN GREENHOUSES,
Greenport, N. Y.
Mention HORTICULTURE when writing.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.
Mention HORTICULTURE when writing.

BUY YOUR Gladiolus America

FAMOUS FOR FLORISTS FROM FLOWERFIELD

Acclimated--True--Healthy

Ask for Gladiolus Catalogue

JOHN LEWIS CHILDS
FLOWERFIELD, L. I., N. Y.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

AZALEAS

Extra fine Plants of the Christmas and Easter Varieties.

BOSTON FERNS, ARDISIAS

Send for prices

JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE

We wish that every Carnation Grower throughout the land would follow the method of the "Man from Missouri" and have us **show him** our

Philadelphia Rose Pink Carnation

before he places his order. Ten to one both of us would profit in the end — The Carnation Grower, by planting a large quantity; We by booking large orders.

Seeing is Believing

And so we say, come to Detroit at any time, and **see the Philadelphia Rose Pink Carnation growing.** Our word for it — the sight of **Thirty-five Thousand Perfect** plants will surpass your own expectations.

Prices:—$12.00 per 100; $100.00 per 1000; 2500 at $95.00 per 1000; 5000 at $90.00 per 1000.

Place You Order Now.

S. S. SKIDELSKY & CO., 1218 Betz Bldg., **Philadelphia**

In Writing Advertisers Kindly Mention HORTICULTURE.

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case).....	$1.25	$8.50
14 ctm. bulbs (1000 to case).....	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO
Mention HORTICULTURE when writing

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters
90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.
Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....623
Albany Cut Flower Ex...614
Allen, J. K.....614
Am. Importing Co.....611
Anderson, S. A..610
Aphine Mfg. Co..621
Aschmann, G....591
Atlanta Florist Co.....612
Ayres Co., S. Bryson.....607

Badgley, Reidel & Meyer.....614
Balsley, Harry..622
Barrows & Son..592
Bayersdorfer, H. & Co.....611
Bay State Nurseries.....602
Bloomingdale's, 608
Bobbink & Atkins.....603
Boddington, A. T.....605
Boddy, John....601
Bolgiano & Son, J.....607
Boston Florist Letter Co.....612
Braslan Seed Growers Co....607
Breck, J. & Son.607
Breck - Robinson Nurseries....604
Breitmeyer's, J. Sons.....608
Brookland Gardens.....602
Bryan, Alonzo J.592
Burnett Bros....607
Burpee, W. A. & Co.....607

Page
California Florist.....609
California Seed Growers' Asso.607
Chicago Carnation Co.....612
Consumers Fertilizer Co.....621
Cooke, Geo. H...610
Childs, John Lewis.....590
Clarke's, D Sons.....608
Conard & Jones.604
Conine, F. E. Nursery Co....604
Cowee, W. J.....615
Craig, Robt. Co.590
Dards.....608
Davenport, A. M.590
Dawson, H. S...592
Detroit Flower Pot Co.....622
Dorner & Sons Co.....592
Dreer, H. A.603-622
Dunlop, John H 609
Eastern Nurseries.....592
Edwards Folding Box Co.....612
Elliott's, W.Sons.607
Epstein, Julius 609
Ernest, W. H...622
Esler, J. G.....622
Eyres.....610
Farquhar, R. & J. & Co....590
Felix & Dykhuis.606
Ford, W. P.....614
Ford, M. C.....614
Forrest, Frank H.....609
Fottler, Fiske, Rawson Co....607

Freeman Orchid Co.....605
Page
Framingham Nurseries....603
Froment, H. E..614
Franklin Davis Nursery Co....603
Galvin, Thos. F. 609 610
Gasser, J. M. Co.609
Goodsell, P. H..603
Grey, T. J. Co..607
Gude Bros. Co..609
Hail Association.622
Hail & Robinson.609
Harlowarden Greenhouses.. 590
Hart, Geo. B....615
Heacock, Jos....590
Heinecken, Otto.607
Henderson, A....591
Hess & Swoboda.608
Hews, A. H. & Co.....622
Hill, E. G. Co..615
Hitchings & Co..623
Holland Nurseries.....590
Hilfinger Bros...622
Holm & Olson..608
Hudson Carbon Co.....620
Industry Moss & Peat Co....605
Interstate Tobacco Co.....621
Johnson, J. Oliver.....607
Johnston Bros...609
Jones, Robert Ross.....623
Kasting, W. F. Co.....615
Kervan Co.....614
Keller, J. B.Sons.608

Page
Keller, J. M. Co.592
King Construction Co.....622
Kramer, F. H...609
Kroeschell Bros.623
Kuebler, W. H..614
Lager & Hurrell.605
Lemon Oil Co...620
Leonard Seed Co.607
Leuthy, A. & Co.592
Loechner & Co..606
MacMulkin, E...609
May & Co., L. L.610
McCallum Co....615
McCarthy, N. F. Co.....612
McConnell, Alex.608
McCray Refrigerator Co.....611
McHutchison & Co.....592
McKenna & Son, P.....609
McKenzie, John.590
McManus, Jas...614
Metropolitan Material Co.....623
Michell's Seed House.....606
Michigan Cut Flower Ex.....612
Millang, Chas...614
Millang, Frank..614
Montreal Floral Exchange..614
Moore, Hentz & Nash....614
Murray, Samuel.608
National Nurserymen....603
N. E. Nurseries.604
Nicotine Mfg. Co.621
Niessen, Leo Co.612
N. Y. Stable Manure Co....621

Page
Oechslin, Frank.591
Ohio Hort. Society.....601
Ouwerkerk, P...590
Park Floral Co..608
Palmer, W. J. & Son.....610
Parshelsky Bros.623
Penn the Florist.609
Pennock - Meehan Co.....613
Pierce Co., F. O.622
Pierson, A. N..592
Pierson, F.R.Co.610
Pierson - U - Bar Co.....624
Plant Food Co., 20th Century..621
Poehlmann Bros. Co.....612
Pollworth, C. C.608
Pulverized Manure Co.....621
Quaker City Machine Co.....622

Randall's Flower Shop.....610
Reed & Keller..614
Reid, Edw.....615
Reinberg, Peter.612
Reuter's.....610
Rice, M. Co.....609
Robinson Co., H. M.....614
Roehrs, J. Co...605
Roland, Thomas.592
Rolker, A. & Sons.....592
Rosery, The.....608

Sander & Son...605
Scott, John.....590
Schling, Max....609
Schwake, Chas. & Co.....591

Page
Sheridan, W. F.614
Sharp, Partridge & Co.....623
Siebrecht, Geo.C.614
Sim, Wm.....605
Siggers & Siggers.....622
Skidelsky, S. S. & Co.....591
Smith, P. J.....614
Smith & Co., E. D.....603
Smith, W.& T.Co.602
Smyth, Wm. J..608
Sprague, J. H..604
Stearns, A. T. Lumber Co....623
Stumpp, Geo. M.608
Totty, Chas. H..592
Thorburn, J. M. & Co.....607
Traendly & Schenck.....614
Valentine, J. A..608
Van Assche, F..623
Vincent, R., Jr., & Sons Co....590
Wants, For Sale.619
Ward, R. M. & Co.....592
Weber, F. C....609
Weeber & Don..607
Welch Bros.....612
Whittier & Co., W B.....603
Wilk, John.....607
Wilson, Robt. G.608
Wood Bros.....592
Woodrow & Marketos.....615
Young, John....614
Young & Nugent.608
Zangen, O. V...607
Zinn, J. A.....609
Zvolanek, Ant. C.607

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 616, 617, 618, 619

Buy Horseshoe Brand GIGANTEUM

Size 6 x 8	in.	$16.00	per	case of	400
" 7 x 9	"	18.00	"	"	300
" 8 x 10	"	23.00	"	"	250
" 9 x 10	"	22.00	"	"	200

Baby Cases

Size 7 x 9	in.	$ 7.50	per	case of	100
" 8 x 10	"	10.00	"	"	100

Send us your order. Buy now for Cold Storage deliveries during 1914. Storage charges extra at 15c. per case per month.

Not How Cheap But How Good

RALPH M. WARD & CO.

The Lily House

71 Murray Street, - - - NEW YORK

The Best Lily Bulbs in the World.

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers

FISHKILL, N. Y.

CYCLAMEN

Best strain in existence.

4 inch	$25.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE

17 Murray St., NEW YORK

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Dun-n, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson. Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.

Perkins Street Nurseries Roslindale, Boston, Mass

J. M. Keller Co., Inc.

GROWERS

DECORATIVE PLANTS

OF HIGH QUALITY

Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST

WASHINGTON, NEW JERSEY

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Dutch Bulbs for Outside

It is safe to say that no florist who does a retail trade can dispense with what are commonly termed Dutch bulbs, outdoor planted. It pays to grow an assortment of hardy bulbs for cutting, entirely apart from such as may be used for bedding. These directly follow the indoor crop. All Dutch bulbs like a well worked, friable soil, in which old, well decayed manure has been mixed. The hyacinth should be set six inches deep and the bulbs the same distance apart. Tulips should be covered four to six inches according to size. As to the planting time, from the end of October to the middle of November is a good period. Among the May flowering or Cottage tulips, good yellows are: Gesneriana Lutea, Golden Crown, T. Retroflexa, Bouton d'Or and Leghorn Bonnet. Among whites La Candeur is good. In scarlets, Gesneriana Spathulata and Inglescombe Scarlet. In pink, Inglescombe Pink. For hyacinths, singles are far preferable to doubles for bedding. Baroness van Tuyll and Grandeur a Merveille, white; Gigantea and Gertrude, pink; Robert Steiger, crimson; Queen of the Blues, sky blue; King of the Blues, dark blue, and Golden Yellow will be found excellent inexpensive varieties.

Ericas

Unfavorable climatic conditions, with unusually slow growth and the need of great care in treatment are some of the reasons why heaths are not cultivated here as extensively as they deserve to be. We are now at a time of year when many of the heaths are slowly coming to bloom, or are nearing final development. It is just at this stage, and in giving perfect finish, when growers experience the greatest difficulty and often fail at the very last moment, when up to that point all had gone smoothly and promised well. When they show buds they can stand more fire heat, even to the extent of being slowly forced into bloom, but 45 degrees should be considered the normal. There must be no spraying of foliage, wetting of walks or stagings from now on. A thorough drying out of the soil at any time is followed by as fatal results as would over-watering. So pay attention to watering at the roots for they like an even amount of moisture in the soil. Watch out for mildew and give flowers of sulphur, blown through the foliage when first noticed.

Primulas

Whatever little benefit primulas may get by leaving them in outdoor frames after this week is hardly worth the extra labor involved from now on. An almost daily opening, closing and perhaps covering of the frames will soon become necessary, and the attendant must be on a constant outlook for the danger signals of approaching winter. There is always a considerable sale for these pretty little plants during the early winter months. Where they are found pot-bound, apply a light dose of liquid cow manure from time to time. The plants now want all the sun there is and a light airy bench. A carnation house is just the thing. It depends from now on, entirely, how much light, air and sun they get, as to their blooming. The plants for early blooming should be well set with buds now, and if a good number of them have stems one-half inch long, so much the better. A rather high bench, or a shelf near the glass, with plenty of room between the plants will now be of advantage.

Orchids

Cypripedium insigne will soon be coming into flower. They should be placed where they can have a night temperature of about 58 degrees and regular ventilation is essential at all times. From now on all shading can be entirely dispensed with. With proper care the flowers will keep in good condition for a month and over. All cattleyas that have passed out of flower such as Harrissoniæ, Eldorado, Leopolodii, Loddigesii, Granulosa, Gaskelliana, etc., and have had a good rest can now be given an overhauling and repotting. When you see the new roots just peeping is the best time to do this work. A good many growers use just the clear osmunda fiber for their cattleyas and they are producing fine flowers with the same so it will be well to give this a trial. Use plenty of clean crocks for drainage.

Winter-Flowering Geraniums

Have you ever tried growing a batch of nice doubles and singles in 5-inch or 6-inch pots for winter blooming? Keep the flower trusses picked off until the chrysanthemum season is partially over. For Thanksgiving or Christmas sales they are very attractive, for about everybody feels that he or she can manage a geranium. Narrow, light shelves, on the sides of a carnation house, where the atmosphere is fairly dry suits them admirably. Where a crop of flowers is wanted from Thanksgiving to Christmas, no more pinching of the geranium buds should be done after the first week in this month. Feeding should be given regularly after the pots are well filled with roots. It is better not to use liquid cow manure or sheep manure too freely, as the result would be rank growing plants, soft in growth, which would flower disappointingly. Instead, use fine bone or Clay's fertilizer in the form of top-dressing. This will encourage surface roots and at the same time build up short-jointed, stocky wood, which will flower most profusely during the winter.

Wintering Fuchsias

See that all your stock plants of fuchsias are taken care of from this out. All those that were given a rest can be shortened back to good, firm wood and placed in a house that stands no lower than 55 degrees at night. By giving them a daily syringing they will soon break into new growth which in a little while will make fine stock for propagation later on. To root them well they like the propagating sand at about 70 degrees and the atmosphere at 55 degrees. When potting them up give them two parts loam, one part rotten manure and one part of leaf mold.

Mr. Farrell's next notes will be on the following: Antirrhinums; Liliums giganteum and multiflorum; Shrubs for Greenhouse Culture; Spiraeas (Astilbes); Tulips; Lifting Coreopsis for Forcing.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Pruning Vines

There remains just one month before we shall be starting the early vineries into growth again. This is hard to realize, for at the time of writing there are very little signs of the leaves falling, the continued mild weather here this fall being very much against vines finishing up as early as we would like to have them, particularly the early ones. Here is one of the many things that we cannot govern or influence in any way; we have to wait for nature to do her part, after which we can have a say with the assurance of success. To those who have not studied nature and learned that she only allows us to go so far with our persuasive powers and after that her natural conditions have to be conceded, it is a great wonder that we cannot produce more than one crop of fruit in a year. They forget that the vine has to have a rest the same as other trees and human beings, too, and the longer and more complete that rest is, the better the vines will be for it. Get them to rest as early as you can and keep them so until they are needed. The first thing after the leaves have fallen is the pruning. It will not hurt to prune before all the leaves are down providing they are showing their autumn tints and a few are already down. This early pruning of the early vinery is an absolute necessity, as no doubt all will agree, for it holds up all the other work to follow in the shape of cleaning, etc., but not only the early vinery should be pruned at the very earliest date possible, but all the succeeding ones, for there is nothing to be gained by delaying the job, but on the contrary there is a greater risk from bleeding when they are started up again. Late-pruned vines are always more liable to bleed than those pruned early. It is obvious to all that bleeding in the spring or at the time a vine is started must be a detriment to it. In the bud that is to furnish the lateral is stored up the essentials to make that lateral, and as the vine starts to answer to the warmer treatment by action of the roots and later the bursting of the bud, and so on until several leaves are expanded, any waste energy is an undue taxation of the vine and certainly is not giving it a fair chance to give us all that it is capable of doing. Prevent bleeding if you want the best crops. It is much easier to prevent bleeding than it is to stop it when once started. If it has ever been your luck to try to stop a bleeding vine by all the known remedies and several of your own that never have been tried before to your knowledge and then still have to gaze on the continual drip, drip, you will know of what I write. I believe there are times that nothing will stop a vine bleeding when once it has commenced, but if the caution of preventing it is taken at the right time it will be unknown. The greatest preventive is early pruning followed by a complete covering of "Styptic," a preparation that can be bought at any seed store. There are two systems of pruning, known as the long-spur and the short-spur systems. The former I would not recommend except in the case of its being the last year that it is intended to fruit a vine. Instead of pruning hard back as is the case in short-spur pruning, the best bud on the lateral is selected to furnish the lateral in the coming year and only the growth beyond it is cut away. See what a shape and network of old and useless vine would accumulate in a few years of this treatment. By using the short-spur system for years, only a compact spur will steadily grow, taking up a minimum of room. Prune the lateral back to two good eyes. Some take the chance with one. It is all that is required, but there is many a time that that one left meets with an accident and there is not another to take its place. It is a mighty hard job to renew a spur when once lost. Leave two eyes at the time of pruning and if the two should grow away in the spring select the stronger and discard the weaker one. In the event of both being equal retain the one nearest the rod. There is nothing to beat a sharp knife for pruning grape vines.

The Heating Pipes in Cold Houses

Vines, peach and nectarine trees that are to be forced early will be benefited by the frost that we get during this month (providing no zero weather is experienced). While it takes a hard and continued frost to freeze up heating pipes, especially if the return pipe is left open, it is the easiest and also the safest way to let the water out of the pipes in these houses. When building, this provision ought to be made by having a valve on both the flow and return pipes with a plug inserted on the underneath side of each so that the water can be drained out without any trouble, and when the time comes to fill them up again all that is necessary is to screw in the plugs. By doing this the house is sure to be kept at the lowest temperature possible.

Sorbaria arborea

This new shrub, a portrait of which appears as the cover illustration for this issue, is one of the Arnold Arboretum's introductions from western China through Mr. E. H. Wilson. It is a strong growing, much branched, late-summer flowering plant, perfectly hardy in New England. It is very free blooming and prefers a moist, cool situation. Under these conditions it grows ten to twelve feet tall and produces broad panicles twelve to eighteen inches long, of pure white, Spiræa-like flowers. The arching branches are clothed with dark green, pinnate leaves and each shoot terminates in a truss of flowers. This new Sorbaria is a splendid plant to grow in association with Buddleia Davidii and its varieties. It is readily propagated by seeds, cuttings, or by the suckers which are abundantly produced from the rootstock.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Růžička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Propagating House and Sand

If your propagating house has not been cleaned out, lose no time in having this work done, for not only do the benches suffer but it is none too good for the cuttings that will be put there later on. There is such a thing as starving the old fungus by giving it no place to remain, and there is no better way of doing this than by allowing the benches to dry up well during the summer months. Where the house is situated so that chrysanthemums can be crowded in in the fall, this is usually done, and then the soil removed and the house cleaned. If this is the case with your place then lose no time cleaning the old soil out of the benches as soon as the chrysanthemums are out of the way, and wash them at once and then give them a good coat of whitewash to which a little bluestone (copper sulphate) has been added. This will help do away with many of the germs that are in the habit of loafing around in the cracks and crevices, ready to spring out and damage the young cuttings or the roots of the same, as soon as they are formed. If you have to go any distance for sand, now is the time to have it hauled and stored where it will be handy to get at in the winter when it is wanted. We would not advise putting it right in the benches, as it is best to do this just before the cuttings are to be put in. This insures clean sand for the start and there is a good deal in that. If you have no place under a roof, heap the sand and cover with straw, upon which can be placed leaves or any coarser material that may be had. The object of using the straw is that there is nothing cleaner, and the sand must be kept clean. Good sharp sand that is not too fine nor too coarse will be the best for the purpose. River sand will usually contain plenty of very fine mud which should be washed out, by watering it thoroughly after it is placed in the benches. If there is good drainage this water will carry away all the mud, and if the sand is so treated two or three times it will be almost as clean as the natural sand that is found here and there in strata.

The Flower Shows

Do not be satisfied after visiting the shows to say, "We have something just as good at home." Go out into the fight and let other people know it if you can. It will help your business, and help the trade as well. There is much more joy in winning when competition is close, so do not stay home because of that. Select your blooms with the greatest care, letting them remain on the plants to develop as large as possible, and then put them into the ice box for a while. Do not attempt to exhibit stuff that has been kept too long, for it will go back on you, and the chances of winning will be much smaller. Do not try to exhibit in the big classes if you have only a few plants. The growers who have many thousand to select from will take care of that, unless of course your stock is very well grown. It is surprising how many flaws you can find when you come to look for a perfect bud. One bloom will be perfect but for some leaves that have been bruised while syringing. Another will have a bud that lacks the finish that goes with a perfect rose. Look over your blooms very carefully and you can then know how good your blooms really are. Be sure to clean the foliage by rubbing it very gently with the softest of the wax papers, being very careful not to bruise it. Never lay the exhibition stock down, unless there is paper there first, and clean paper at that. In shipping, wrap the buds in fine paper, and place tissue wax and newspaper between the layers, so that the thorns of the one do not have any chance to run into the foliage of the lower layer and tear it. Always take at least two extra blooms along, so that if for any reason you should have to discard one you will have another to take its place. Observe well the rules governing the show, and see that they are not violated in any respect. In exhibiting roses in quantity make sure that you have the required number, no more, no less. Often it happens that roses that are really better do not get the credit, for they may have a coating of lime on the foliage, as they came out of the rose house. Or there may be a few pieces of string still clinging to them. Now this is no way to exhibit roses, and the grower that is as careless as this, deserves to be beaten.

Covering the Soil for Use in Winter.

Now that the autumn leaves are falling it is a good idea to rake up a lot of them and cover over the soil heaps that are to be used in the winter for potting purposes. Do not put this off, for you will have a good chance to regret it when the winter is here and the men will waste any amount of time digging up the frozen earth and bringing it into the potting sheds to thaw and dry, in order that it may be used. Of course it is very nice, and far cheaper in the long run to have a shed where soil can be stored but there are many florists who have no such luxury, if you choose to call it that. We would rather call it a necessity and would not do business without it very long. To go on, turn the soil over many times as may be necessary so that it is about ready to use. It can be done much quicker and better now than later in the winter. Then make a nice square heap of it and pile the leaves on. They can hardly be put on too quick, for the frost will at times go through two feet of the leaves. If you can, pile some old shutters or something over the leaves so that all the water that falls will not go down into them. This is a good way to keep the frost out, for the drier the leaves are the less chance will the frost have of getting down into them, and through them into the soil. Where bog hay is plentiful and cheap this can be used along with the leaves and the results will be much better.

Notes in General

With the competition keener than ever and many new and very good indeed roses, this coming season will be a busy one for the growers. Like farming, which had always been looked upon as no business at all, rose growing is certainly a business, and the place that is not run on business principles will soon be torn down or sold to someone who can run it so. Those happy-go-lucky days are gone. With the continual rise in the wages and the cost of other necessities which are required commercial rose growing is certainly no play.

HORTICULTURE

VOL. XVIII NOVEMBER 1, 1913 NO. 18

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Sorbaria arborea.

NOTES ON CULTURE OF FLORISTS' STOCK—Dutch Bulbs for Outside—Ericas—Primulas—Orchids—Winter-Flowering Geraniums—Wintering Fuchias—*John J. M. Farrell* 593

FRUIT AND VEGETABLES UNDER GLASS—Pruning Vines—The Heating Pipes in Cold Houses—*George H. Penson* 594

SORBARIA ARBOREA 594

ROSE GROWING UNDER GLASS—The Propogating House and Sand—The Flower Shows—Covering the Soil for Use in Winter—Notes in General—*Arthur C. Ruzicka* 595

THE LILAC QUESTION—*E. O. Orpet* 597

CLUBS AND SOCIETIES—Lancaster County and City Florists' Club—Rose Test Gardens—Mrs. C. E. Critchell, portrait—Connecticut Horticultural Society—Gardeners' Convention—Chrysanthemum Society of America 598

Club and Society Notes—Chrysanthemum Society of America Cup, Illustration 599

Chrysanthemum Oconto—Illustrated 600

FALL PLANTING—*John Kirkegaard* 601

BRITISH HORTICULTURE—*W. H. Adsett* 601

THE GARDENERS' PLACE—*D. Miller* 604

SEED TRADE—Fixing Values—Seed Beans—Some Surpluses—Onions and Potatoes—Notes 606

OF INTEREST TO RETAIL FLORISTS—New Flower Stores—Steamer Departures 608

Flowers by Telegraph 609

Home Merchants Should Never Have Dull Times 610

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati 613

New York, Philadelphia, St. Louis, Washington 615

OBITUARY—Mrs. F. L. Krekeler 620

MISCELLANEOUS:

The Philadelphia Show 599

Boston Flower Exchange 599

Panama California Exposition Freight Rates on Exhibits 599

The Chicago Exhibition 599

New Hampshire Toils and Pastimes 600

The Water Requirement of Plants 600

Wintering Bay Trees 600

Propagating Roses Grown Outside 600

Two Fine Hydrangeas—Illustrated 597

Cleveland Flower Show Preparations—Illustrated 601

Walter Mott's Notes by the Way 602

Apple Tree Authracnose Should be Treated Now 604

Registration at the Massachusetts Agricultural College 604

New Corporations 606

News Notes 609-611

St. Louis Notes—Washington Notes 610

Chicago Notes—Personal 611

Boston Co-operative Flower Market 615

Cincinnati Notes 615

New Publications 620

Greenhouses Building or Contemplated 620

Making common cause

We read in Mr. Herr's interesting [illegible] the doings of the Lancaster [illegible] Club that Lancaster County, [illegible] lucky in having very few bad spots of sto[illegible] Last year there were more but club information and visitations are going to help keep these bad spots from spreading." We believe this statement to be true and Mr. Herr's point well taken. Altruism does not appeal to all natures, however, and it is quite possible, even in these days of "all for one and one for all," to find people who would strenuously object on purely selfish grounds to participate in any policy tending to show their neighbor how he may become more proficient and improve the quality of his product. We have had, from time to time, accounts of these little neighborhood tours of the Lancaster florists and they have always inspired the wish that many other communities might do likewise, for, while it is very nice and complacent to feel that one is turning out better goods than all the rest, yet it should, also, be a matter of pride for any business man to know that he has been a co-partner in helping to bring to a high average standard the entire product of the section in which he is located.

Pernicious reformers

The florists of Northampton, Mass., and other towns contiguous to Smith College have had a rather disagreeable situation forced upon them, according to the N. Y. Evening Post, by a reform movement inaugurated by the Students' Council against the sending or wearing of flowers among the girls attending the college. It is stated that the custom of sending each other flowers on every possible occasion had become such a burden of extravagance that it became necessary to call a halt and take measures to create public opinion "against this lavish sending of flowers." If this be true, it is a pity. Of all the expenditures, outside of those for the very necessaries of life, flower buying should be among the last to be molested. It has been repeatedly asserted by those who have had opportunity to see and know, that the use of flowers in this country is insignificant as compared with what prevails in all European countries, and yet every little while some agitator who can't rest without "reforming" something has to take a wallop at the using of flowers for one purpose or the other. From what we know of the Northampton florists, we don't believe any of them are yet rolling in wealth as a result of the lavish extravagance of the girls in flower buying.

Helpful reading

We frequently receive inquiries at this office for information as to the best books available for the florist or gardener, on general topics or on special subjects. For the man who wishes to become well informed on botanical or other scientific lines there are plenty of good books, but as to really up-to-date matter that will be practically useful to one who must earn his living by growing plants and flowers, very little can be suggested. In these progressive times it does not take long for a book of that sort to get thoroughly out of date. Bailey's Encyclopedia, the best book published thus far for American conditions, is already well along on a new edition, made a necessity by the rapid advancement in floriculture within the few years since it was first published. The plain truth is that no book can keep pace with a periodical such as HORTICULTURE is, in value as an exponent of the latest facts and practice in the culture of plants and flowers and kindred topics and as a safe guide to the man who is ambitious to keep in the front rank in his profession. Yet hardly a day passes that someone does not exclaim, "Oh, I never open a trade paper. I subscribe for them all, of course, but that's as far as I go." If all such could only be reached and induced to just look carefully through the columns of this or any other issue of HORTICULTURE, he will be forcibly impressed with the variety and quality, the wide range of subjects of immediate importance which are covered—not in a superficial or merely theoretical manner, but by writers who are "making good" themselves and are able and willing to tell truthfully what they have learned by experience for the benefit of their fellow horticulturists.

The Lilac Question

People interested these days, make annual pilgrimages to the Lilac Shrines such as those of the Arnold Arboretum and the Highland Park, Rochester, collections, and the interest grows amazingly year by year as judged by the attendance and the number of inquiries concerning lilacs by those interested, who choose these when they have space for little besides, as in small gardens.

The question of hardiness is not raised. We have yet to learn of lilacs being winterkilled at the tops or buds injured by frost in winter proper. They are occasionally hurt in spring by late frosts after the shoots have developed, in common with most other flowering shrubs, even native ones that are indigenous to the location.

Lilacs thrive in all soils alike, from a sandy loam to heavy clay, provided there is nourishment provided and moisture in summer, the latter being perhaps the most important especially during times of drouth as in the past season, this being a mere detail to the cultivator.

It is reasoned that all is well with the lilacs until the buyer appears and finds that from an exceedingly abbreviated list of kinds, it is only possible to obtain plants grafted on the roots of the privet, and unfortunately, this is usually the so-called California species. This system of propagation has been approved by good authorities in certain sections, but from personal experience and observation elsewhere in this locality, the privet stock is worse than valueless. In the spring of 1912, as complete a set of lilacs as possible was made, with due regard to the colors. These grew well during summer and were set out permanently, we thought, this spring. All were moved with care, and leaved out nicely, but about half of the lot proceeded to die, and an investigation proved that the privet rootstock had died during the winter, which was not a severe one as cultivators understand it. Above the graft, the lilac proper was still alive for weeks, in fact until midsummer, but no growth was made. Recently attention was called to another lot that had grown to be valuable shrubs, had flowered for years and were much valued, but knowing the symptoms, the diagnosis was easily made. It was the same trouble, the death of the stock before roots had been formed at the union.

It is a well recognized principle that grafting is practised for the purpose of propagation—especially with difficult subjects—but there are many who do not know this, and most people think it is done to get added vigor. In some instances as with fruit trees it is to restrict vigor and produce fruitfulness, but with the instance under consideration it is just a matter of getting up stock quickly to sell. After this there is no appeal in the way of a guarantee, and the buyer is the loser.

During a recent eastern trip, it was noted that lilacs are now being rooted freely from cuttings taken late in summer and put in frames outside. Doubtless they could be so managed in a glass house, but the point is that own-root lilac plants are possible though it takes longer to get a salable plant as large as those raised by grafting, but even if the price was doubled, and the danger of winter killing, to say nothing of the tendency of the privet to sucker from the root, and a sprinkling of borers thrown in for good measure, just to cover the whole year of worries for the gardener—if these were eliminated—the price would seem to be a secondary consideration to lilac lovers.

Another suggestion is, that if grafted lilacs must be made, let the vendor state so clearly in his catalogue, with instructions for deep planting, protection at the root for the first few winters until own roots are formed and, at the end of these a disclaimer would fit in well. Our own losses are trivial, but the trouble is widespread and is blamed to the plants, when it rightfully belongs to the method of propagation.

E. O. Orpet.

TWO FINE HYDRANGEAS.





The accompanying illustrations show a pair of unusually fine specimens of Hydrangea Otaksa on the grounds of Wm. A. Congdon of New Bedford, at Siasconset, Nantucket, Mass. One of these plants is 9 feet in diameter and 5 feet high. The other is 8 feet in diameter and 5½ feet high.

Th great size and floriferousness of the plants is attributed to the fact that pipes lead from the laundry and they are constantly kept watered in summer by the waste water.

CLUBS AND SOCIETIES

LANCASTER COUNTY AND CITY FLORISTS' CLUB.

October 16th was the first official visiting day for the club and a trip to the growers in the western end of the city was the programme. At the establishment of H. A. Schroyer we found carnations and chrysanthemums better than ever before grown at this place. At The Wheatland Co. the best crop of Chrysolora were seen that it has ever been the pleasure of this set of florists to lay eyes upon, stems 12 feet long and size and quality unsurpassed. At. B. F. Barr Co.'s, carnations, the newer roses and a fine lot of chrysanthemums were in evidence and at A. M. Herr's a house of very good carnations in full crop and the healthy condition of the geraniums, both in the stock houses and the cutting houses was commented upon, as well as a very fine strain of pink snapdragons grown for cuttings. At Rudolph Nagle's a complete assortment of chrysanthemums was seen, almost every one of which was of top-notch quality. Here are also grown quite a fine lot of geraniums and some miscellaneous stock. Taken as a whole, the west end is lucky in having very few bad spots of stock this season. Last year there were more but club information and visitations are going to help keep these bad spots from spreading.

At 7.45 P. M. the club meeting was in full progress with the usual good percentage of members in attendance and a mixed programme. J. H. Lankey, of Mountville, told us what the club had done for him as did several others. J. F. Siebold, of Lancaster, told us how to grow snapdragons, among other things mentioning that they would not stand tobacco smoke. In the discussion following, this seemed to be the general experience, although the writer has grown them for a number of years in a small way in carnation houses that are smoked heavily twice a week, spring and fall, and once a week during winter without ever having had any noticeable bad effects. L. S. Landis, our secretary, gave us some pointers on the growing of greens for cutting.

The Committee on Ladies' Night have arranged for that event, Thursday, November 6th. The Committee on Co-operative Buying are getting together on one or two things as a trial and it is hoped that this will work out all right. S. S. Pennock, of Philadelphia, was a visitor and made some very good suggestions along the lines of co-operative buying and the good to be had out of a club of this sort.

A. M. Herr.

ROSE TEST GARDENS.

The executive committee of the American Rose Society held its meeting for October, and following out the instructions of the regular meeting of the society held at Minneapolis relative to the adoption of plans and rules for Test Rose Gardens at Washington, D. C., Ithaca, N. Y., Minneapolis and New Brunswick, N. J., took up the correspondence and plans pertaining to this work. Theodore Wirth, president-elect of the S. A. F., sent on a carefully drawn layout or plan. John Cook of Baltimore, Dr. C. A. Beal of Cornell University and M. A. Blake, horticulturist, Agricultural Station of New Jersey, submitted suggestions as to what they could do toward starting and caring for the Test Rose Garden. These matters were carefully gone over. President W. R. Pierson submitted a set of rules for the practical working of the Test Garden and these were considered section by section and submitted for suggestion or amendment.

The proposed extension of membership and affiliation with local societies was reported to be receiving commendation. The effort to obtain an accurate list of all roses originated in America is being taken up with interest—reports have come from California, Canada and widely separated sections. Premium list for the Spring Exhibition, which is to be held in New York City the last of March, 1914, will be taken up and issued without delay.



Mrs. C. E. Critchell,
President Ladies' Society of American Florists.

The National Rose Society of England in its Annual Report gives recognition to the members of the American Rose Society who were present at its exhibition. Ex-President Adolph Farenwald and E. G. Hill are finely photographed therein. More members have paid in the membership fee for 1913 than has been received in any one year before—this is what we need. "Come with us and we will do thee good."

The Annual Bulletin for 1913 will be an interesting volume.

Benjamin Hammond,
Beacon, N. Y. Secretary.

CONNECTICUT HORTICULTURAL SOCIETY.

The second October meeting of the society was well attended on the evening of October 24th. The evening was given up to the consideration of vegetables and fruits. President Huss in his opening remarks stated that it was the first time that the society had ever given an exhibition entirely of vegetables since its inauguration. It took the three large centre tables and two extra end tables, the full length of the hall, to hold the magnificent display and number of varieties and the size of the specimens could not be surpassed at any exhibition in the country. President Huss appointed C. H. Sierman, G. H. Hollister, and Warren S. Mason as judges, and they awarded prizes as follows:

John F. Huss, exhibit of vegetables, a first-class certificate.
Alfred Cebelius, cultural certificate.
Louis Chauvy, cultural certificate; also a first-class certificate for exhibit of grapes.
C. D. Wisner, South Manchester, display of apples, cultural certificate
Francis Roulier, chrysanthemums and orchids, first-class certificate.

G. H. Hollister read a paper on raising vegetables in hot beds, which covered minutely the preparation of the bed and the methods of cultivation to maturity of lettuce, radish, asparagus, etc. President Huss mentioned the fact that he had just received a paper from Geneva, announcing some new varieties of vegetables, also stating that Europeans are more fond of vegetables than are Americans.

Secretary Alfred Dixon states that the next meeting will be held on Thursday night, November 6th, one week and one day earlier than usual.

GARDENERS' CONVENTION.

All arrangements have been completed for the annual convention of the National Association of Gardeners, which, as the guest of the Horticultural Society of New York, will hold its business session and election of officers for the ensuing year, at the American Museum of National History, New York City, on Monday afternoon, November 3d, at 2 o'clock. The annual banquet at the Hotel Endicott will follow immediately after the business meeting.

Entries for meritorious exhibits or novelties for the association's award—certificates of merit—to be exhibited at the flower show of the Horticultural Society of New York which occurs at the Museum during the convention, must be filed with the secretary of the N. A. G. not later than November 1st.

Many out of town members have already signified their intention of attending both the convention and the banquet. M. C. Ebel, Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Report of Committees.

Exhibited at Cincinnati, Oct. 18, by Elmer D. Smith & Co., Adrian, Mich., Oconto, cream white, Jap, Inc., Com. scale 86 points.

Exhibited at New York, Oct. 18, by

Chas. H. Totty, Madison, N. J., R. B. Burge, white, simgle, Com. scale, 92 points.

Exhibited at New York, Oct. 18, by Chas. H. Totty, Madison, N. J., J. 29, light yellow, Japanese, Com. scale, 86 points, ex. scale 86 points.

Exhibited at Chicago, Ill., Oct. 25, by Chas. H. Totty, Madison, N. J., R. B. Burge, white, large flowered single, com. scale, 89 points; Gladys Duckham, white, large flowered single, com. scale, 82 points; Stanley Veu, lavender, large flowered single, com. scale, 86 points.

The committee will have a special session at the Chicago exhibition, November 5, 6 and 7 to pass on any seedlings submitted to them at that time.

CHAS. W. JOHNSON, Sec.

CLUB AND SOCIETY NOTES.

The Lancaster Florist Club will hold a ladies' night in the Breneman Building, Lancaster, Pa., November 6th.

The ladies of Cleveland, Ohio, interested in the florist trade, contemplate the organization of a women's florist club for social intercourse. It is their intention to entertain the wives of the visiting florists during the coming flower show, and the convention of the American Carnation Society in January.

The New Hampshire Horticultural Society has elected the following officers for the coming year: C. W. Barker, Exeter, president; J. T. Harvey, Pittsfield, vice-president; Stanley K. Lovell, Goffstown, secretary and treasurer. Executive committee, J. H. Gourley, Durham; E. B. Parker, Wilton, and F. A. Badger, Belmont.

The Rochester, N. Y., Florists' Association will hold their annual flower show November 4, 5, 6, 7 and 8. They wish to extend through HORTICULTURE an invitation to all florists of Western New York to meet at the flower show, Friday afternoon, November 7th, not only to see and enjoy the flowers, but to meet one another and become better acquainted. Chas. H. Vick is chairman of the general committee.

THE PHILADELPHIA SHOW.

Arrangements for the annual Fall Show of the Pennsylvania Horticultural Society are now complete. The chrysanthemums promise well and there will be a number of new features, among which will be an aquarium display in the main hall. Many rare specimens will be exhibited, some of them of almost fabulous value. The show opens to the public Tuesday evening, Nov. 4, at 6 P. M. All exhibits for competition must be staged by noon Tuesday. The fruits and vegetables are an exception. These will be staged Wednesday. The decorations of the hall have been placed in the hands of William Graham which insures good work. The Stroud prizes for hardy chrysanthemums will be awarded to the best exhibits by the 800 boys and girls who were presented by Mr. Stroud with a plant each last season. Louis Burk will be on hand with a fine display of orchids. The exhibition closes Friday night at 10 P. M.

BOSTON FLOWER EXCHANGE.

On Saturday evening, October 25th, occurred the 21st annual meeting and dinner of the Boston Flower Exchange at the New American House. Some hundred and fifty gentlemen were present. The chief business of the meeting centered in the election of directors for the corporation. The choice fell upon W. C. Stickel (president), Wm. Nicholson, Alex. Montgomery, George Cartwright, A. S. Parker, A. Christenson, Lester W. Mann, S. J. Goddard and Eber Holmes. With the exception of Mr. Holmes the gentlemen elected were on the old board and the large and decisive vote received by them is regarded as a victory for the conservative wing. During the counting of the ballots by the tellers speeches were made by several members and invited guests. The auditor's report showed a very prosperous financial situation. The menu was excellent. Next year it is proposed to invite the ladies to be present.



CHRYSANTHEMUM SOCIETY OF AMERICA. CUP.

For ten blooms of one variety, to be competed for at the coming exhibition in Chicago.

PANAMA-CALIFORNIA EXPOSITION FREIGHT RATES ON EXHIBITS.

All exhibits destined to the Panama-California Exposition, to be held in San Diego from January 1st to December 31st, 1913, forwarded from points in the territories covered by the Pacific Freight Tariff Bureau, the Trans-Continental Freight Bureau, the New England Freight Association, the Trunk Line Association (including points in Canada located east of Toronto, Ontario,) and the Central Freight Association (including points in Canada, Toronto, Ontario and west thereof) on which full tariff rates are paid coming to the Exposition will be returned carriage free, except race horses and vehicles (including automobiles for racing purposes exhibited at this Exposition), goods to be returned by the routes that originally carried and offered for return transportation ninety days after the close of the Exposition.

Special rates have been granted on articles intended for exhibit, which owing to their nature it may not be the desire to return, such as agricultural products; building materials not intended for construction; horticultural products; educational exhibits, loaned, sold or donated by schools, colleges and educational institutions; floricultural products; forest products; specimens (anthropological, botanical, fossil, historical and mineral; cereals and grass; maps; statistics; drawings and photographs.

In addition to freight charges on all exhibits, a very reasonable charge has been announced to cover the cost of handling freight from the freight houses, team tracks and wharves of the railroad and steamship companies, located within the city of San Diego, to the buildings located within the Exposition grounds.

Pacific Coast Steamship Company, Pacific Navigation Company, and other coastwise steamers have issued special rates governing the movements of exhibits from points north of San Diego.

The interested Southeastern lines undoubtedly will concur with all the railroads who have announced special rates for exposition purposes, giving the Panama-California Exposition special rates from every point in the United States and Canada.

Rates and terminal charges may be had on application to any freight agent in the United States and Canada.

THE CHICAGO EXHIBITION.

Eleven special prizes are offered in the premium list of the Annual Exhibition of the Chrysanthemum Society of America in conjunction with the Horticultural Society of Chicago and the Chicago Florists' Club, to be held at the Art Institute, Chicago, Nov. 5, 6 and 7, 1913. This exhibition will bring together the big growers of the entire country and the exhibits of gardeners from Lake Geneva, Wis., Lake Forest, Ill., and other suburban towns will give added interest to the local competition. Premium lists may be had by addressing R. J. Haight, 536 So. Clark street, Chicago, Ill.

The Boston Morning Herald for Sunday, October 26th, contained pictures of the interior of Thomas Roland's two mammoth greenhouses at Revere, Mass.

PROPAGATING ROSES GROWN OUTSIDE.

MR. RUZICKA.

Dear Sir: I would like to ask you the best plan to propagate Wm. R. Smith, the Cochets and K. A. Victoria which have been grown out in the open all summer for cut flowers. We want to take them up and heel them in but want to use the wood for propagating. They have had two or three frosts. I am very much interested in your articles in HORTICULTURE. Respectfully,

J. S. L.

Hartford City, Ind.

In reply to query from Mr. L., would state that we find the wood from roses growing outside for summer flowering too hard as a rule to propagate well and root freely. We would prefer to lift the plants and plant them in a bench in the rose house if none of the varieties that are wanted are grown inside. Should there be no rose houses on the place, it will be much cheaper to buy the required number of plants, unless a very large number are wanted, for to propagate roses successfully one has to have very little of other things to attend to. If the roses mentioned have been watered frequently, and the wood is not too hard then we would proceed the same as we would with the regular greenhouse types. As Mr. L. mentions that the roses in question have had one or two frosts we are afraid the wood is too hard to root readily, and a much better plan will be as suggested. These plants do not have to be allowed to flower, and will produce far more wood if all the buds are pinched. Cuttings taken before the first day of the year will form very nice plants for planting out in the spring. Should the first two have plenty of long shoots, these can be cut up into regular cuttings, heeled in, or better still buried in ground that is well drained, and set out next spring. If however the ground where these are set cannot be irrigated, they will not do very well, and cannot be relied on to produce the necessary plants for the coming year.

A. RUZICKA.

THE WATER REQUIREMENT OF PLANTS.

A review of the literature on the water requirement of plants, Bulletin 285 of the Bureau of Plant Industry, U. S. Department of Agriculture, in its 96 pages, supplies an extended bibliography of the subject and presents the results of the leading experiments.

Among the topics considered are the effect of soil moisture content, soil type, cultivation, soil mass, fertilizers, previous crops, soil temperature, air temperatures, shade, air humidity, carbon dioxide content of the air, parasites, the relative leaf area, frequent cutting, defoliation, amount of growth or number of plants per unit of soil mass, and the bearing of the age of the plant on its water requirement.

In addition, there is a consideration of the water requirement of different kinds of plants, and the determination of water requirement of crops under field conditions.

The bulletin is the work of Dr. Lyman J. Briggs, Biophysicist, and Dr. H. L. Shantz, Plant Physiologist, Bureau of Plant Industry, U. S. Department of Agriculture.

CHRYSANTHEMUM OCONTO.



This is one of Elmer D. Smith & Co.'s seedling novelties which was certificated at Cincinnati on October 18th. Oconto is a white Japanese Incurved of large size with strong ridged stem and perfect foliage like Donatello. This will be a companion for Chrysolora, coming into perfection October 15th. Height 4 ft.; best bud August 30th.

NEW HAMPSHIRE TOILS AND PASTIMES.

The following letter just received from Vernon T. Sherwood, formerly of Boston, but now located at Charlestown, N. H., will, we think, interest and entertain many of our readers and so not wishing to appear selfish we pass it around without even asking Mr. Sherwood's permission:

Friend Stewart:—

Just a few notes for old time sake. During a drive from here to Claremont eight miles north of here I called upon Stevens the only florist who runs about 10000 feet of glass. He was enlarging a recently built greenhouse, trying to keep up with the demand for flowers which increases very rapidly. Carnations are the leading feature and he had a nice block of chrysanthemums just coming into flower.

Claremont is a rapidly growing New England town; the Sullivan Machine Company are doubling their facilities and it is the shopping center for miles around.

Bellows Falls, on the Vermont side of the Connecticut river, has Geo. Halliday, the florist. This young man although established just more than a decade is thoroughly up to date in every way. He has a modern greenhouse, iron-frame construction erected last year as an addition to his older houses at present filled with carnations and chrysanthemums, lilies and Primula obconica. The land is planted to choice fruits, peaches and apple trees chiefly, low headed and well kept. Mr. Halliday has taken first prizes for his fruit in Boston and is well known for miles around as a first class fruit grower. Naturally Mr. Halliday believes in spraying, in contrast to a cider maker who owns a large orchard and says it does not pay to spray, although he does burn out the tent caterpillar. There are some who maintain that the russet apple makes the best cider, and perhaps it does, but the russet has less juice than many, and therefore it takes more to make a gallon.

Lovers of Omar and followers of Isaac Walton would do well to sojourn here for a few days near this cider mill, for there is a pond teeming with perch and hornpout and last year's cider as clear as crystal, is a thing for city folks to dwell upon; to paraphrase Omar "a jug of cider, a loaf of bread, and with thee I could be happy for ever."

What think you of cypress bars forty years old and still sound except for the ends on the wall plate? We pulled down our grapery this autumn and rebuilt, putting in 16 x 24 glass; pulled out an old flue and reheated with a Hitchings boiler in another house; repainted everything—residence, farm buildings, greenhouses and fences.

Now for a coon hunt, during the still hours of the night, climbing up a nearby tree and shooting the coon; then the most infernal racket, as the dog grabs the coon, or the coon grabs the dog, in which case it sometimes becomes advisable to club the coon to death.

Well, friend, I have rambled a little, but it is the nearest approach to a talk across the table at Locke's, and I hope that you will get as much pleasure out of it as I do.

WINTERING BAY TREES.

Editor of HORTICULTURE:

Please inform a subscriber the best way to winter Bay Trees in tubs, and also the most practical way. B. F.

Fall River, Mass.

We keep in a cool shed with light on south side of same at 40 to 46 degrees Fahrenheit. A place cool and moist, they like best. A cellar will give about the same conditions. Temperature would do with air and light.

H. H. BARTSCH.

Waverley, Mass.

November 13th is Chrysanthemum Day
November 14th is Carnation Day
November 15th is Rose Day

Special Prizes Every Day at

CLEVELAND'S BIG FLOWER SHOW

Write JOHN BODDY, City Hall, Cleveland, Ohio, for Premium List

In Writing Advertisers Kindly Mention HORTICULTURE.

FALL PLANTING.

When one is setting out a tree or a plant, it is assumed that the planter wishes to have it attain size and as perfect a development as possible the first summer. In the fall, previous to the last of November, when the ground is just warm and moist enough, and in the spring previous to the drying winds and usual hot sun of the last of June, a plant will at once start a root growth after being moved. It the spring it promptly begins sending out leaves, while in the fall only the roots act. Hardy plants transplanted in the fall before severe cold weather sets in will, therefore, even before the following winter become more or less well established, and naturally will be in a position to make a stronger growth the following summer than would those disturbed in the spring, and particularly late in the spring.

It may further be said in favor of fall planting, that more time and effort can be spared for the work than could in the spring. All plants are now fully dormant and in the best condition for moving, while many, such as the Forsythias, for example, the Bleeding Hearts and Peonies, start into growth with the first warm day, and necessarily must receive a check if transplanted then. A peony planted in the fall will be strong enough to produce well-developed flowers the following season, while if planted in the spring it cannot bloom until the following year. Herbaceous perennials and flowering shrubs if planted in the fall will produce a strong and vigorous growth and be much more beautiful than such that have been moved and checked just as they are starting into growth in the spring. Plants transplanted in the fall will suffer less from the hot sun of July and general dry weather of summer than when moved in the spring.

It is safe to plant hardy trees and plants until about December 1st, as it is a well established fact that plants make a root action on all warm days, even during December and after the ground has even frozen to the depth of three or four inches. From October 15th to November 15th is perhaps the ideal time in the year for planting, as the weather is not cold enough to injure the roots while they are exposed, the ground in the most excellent condition to be worked and the plants perfectly dormant. Plants, when packed to travel a distance, are easily kept moist and do not suffer during transportation so readily as in the spring, when often a soft growth has started before they are dug from the nursery and shipped.

JOHN KIRKEGAARD.

Bedford, Mass

CLEVELAND FLOWER SHOW PREPARATIONS.



We present a view herewith, showing some of the publicity work which is being done in Cleveland to boom the big flower show. The picture shows an empty lot in front of the exhibition hall which has been planted with shrubbery, etc., to make the environment and approaches attractive. Entries for the show are coming in strong.

BRITISH HORTICULTURE.

Early Chrysanthemums.

The first show of the season, organized by the National Chrysanthemum Society, took place at the Crystal Palace, Sydenham, on Oct. 1 and 2. This fixture affords ample evidence of the advances which have been made in raising early varieties, and their adaptability for decorative purposes. Cragg, Harrison & Cragg, who are amongst the largest growers for market, had a very attractive group. Among the best were Yellow Moneymaker (a sport from a popular market white) which gained a first class certificate; J. W. Streater, yellow; Juliet, rosy cinnamon; Cranfordia, yellow; Almirante, red bronze; Cranford Yellow, Betty Spark and Pink Princess. Wells & Co., Ltd., had a meritorious display. This firm's new introductions this season include: Popsie, an outdoor single, creamy white, with a yellow disc; Olive, Japanese outdoor variety, chestnut red, with gold reverse; Susie, outdoor single, salmon buff; Golden Firebrand, a bright yellow sport from the early-flowering single Firebrand. Mrs. Richard Hamilton, shown by Lowe & Shawyer, is a useful addition to the market varieties; it is a rich golden yellow, with incurved florets. Golden Diana, from F. Todd & Co., is a golden yellow sport from Crimson Diana. The society's chief show is to take place on Nov. 5 and two following days. This is to be followed by the annual dinner later in the month; a conference is to take place on Dec. 10, when papers on outdoor chrysanthemums are to be read by Norman Davis and T. Bevan, who was the society's delegate at the International Horticultural Congress at Ghent.

W. H. ADSETT.



"Mrs. Frank Pendleton"
"America"
"Dawn"

and other choice

GLADIOLUS BULBS
FOR SALE

FALL BARGAIN LIST, 1913

50,000 America at.....$3 to $10 per M.
2,000 Pendleton at.....$15 to $35 per 100
2,000 Dawn at.....$5 to $10 per 100
5,000 Independence at.....$2 to $9 per M.
5,000 Mixtures at.....$2 to $10 per M.
2,000 Mrs. Francis King at.....$12 per M.

All young stock in perfect condition.

Write for Price List at once to

BROOKLAND GARDENS

S. E. Spencer, Proprietor, Lexington Street, WOBURN, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

HARDY NORTHERN GROWN NURSERY STOCK
WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.
Our Illustrated and Descriptive Catalogue for the asking
THE BAY STATE NURSERIES, North Abington, Mass.

WALTER MOTT'S NOTES BY THE WAY.

Gainesville, Fla.

The Experiment Station in connection with the State University, although located here less than a decade, has done excellent work and promises much for the future. Prof. Rolfs, who has charge of the department, was out of the city and I was handed over to the superintendent of gardens, Jonathan Schnabel, who proved a very versatile guide. One of the most extensive subjects is grasses, every known species being tried out to test its adaptability to this southern climate. Three kinds are highly promising, they are Panicum tomentosum for hay, Anthrophora hermaphordita for pasture, and Tricholaena Wightii a grass from Natal, of vigorous growth and beautiful color, a most decided improvement upon the old species.

Here one sees Cornus florida with fruit of such intense color rarely if ever seen in the north. The native cherry laurel is a vast improvement on the sweet bay. It is a rapid grower, can be trimmed into any shape, and its glossy bright green foliage more attractive. It is claimed to be fully as hardy north, with protection in winter, and is not subject to the insect pests as is Laurus nobilis. I saw some fine standards that were just perfect. Antigonon leptopos is the brightest thing among climbers, of a delicate shade of pink and certainly the most profuse bloomer. Propagated from cuttings it flowers the first year. It forms a tuber so that when cut by an early frost it can be boxed up and stored. Two great roses are Louis Phillipe and Tausendschoen which grow like weeds and bloom all the season.

One of the greatest pests here is the eelworm and Mr. Schnabel is of the opinion the only cure is suffocation, for the insect must have air. Where he finds the soil infected outside he mulches heavily and invariably has success. He is of the opinion that the same method should be adopted under glass where soil cannot be sterilized. By the way, Mr. Schnabel was once grower for Dailledouze Bros. and takes great interest in his northern fellow-craftsman.

Washington, D. C.

The Queen of Autumn reigns supreme in the Capital City but the demand for the grand blooms on exhibition at the various stores is not what it should be, and undoubtedly would be, were the weather colder and more brisk. Fine displays are seen in the store windows. What was formerly quite a trip is now a short pleasant run. I made it in the Gude Bros.' car to Anacostia where are located the plants of Kramer, Gude and Alex. B. Gardner, all within a stone's throw of each other. I missed Fred. Kramer, who recently returned from Europe with many new things. His stock is heavy and various, supplying two stores and a handsome stand in Center Market.

At Gude Bros., Adolphus was right on the job cutting from a house of Col. Appleton, which is a sight in itself. Chrysanthemums in all stages and practically every variety worth growing. There will be immense crops of roses for the holidays as the bulk of the crop now coming is picked early before maturing, throwing the growth back into the wood for a later crop. W. F. Gude showed me the cold storage city plant where the several shipments made during the day are stored which enables them to fill any order at prompt notice.

Evidence of the popularity of the Nephrolepis family is seen in a fine stock of plants in pans and pots of all sizes. I also noted some houses of cyclamens and Begonia Glory of Cincinnati that promise to be prize winners around the holidays. This is the first season for this kind of stock and it certainly is a success.

DREER'S KENTIAS

Our stock of Kentias this seasan is even greater than in former seasons and of the same quality and good value that you are accustomed to receive from us

Kentia Belmoreana

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 10 inches high	$1.50	$10.00	$90.00
3 " 5 " 12 "	2.00	15.00	140.00
4 " 5 " 15 "	4.50	35.00	

	Each
5-inch pots, 6 to 7 leaves, 18 to 20 inches high	$0.75
6 " 6 " 24 "	1.00
6 " 6 to 7 " 28 to 30 "	1.50
7-inch tubs, 6 to 7 " 36 to 38 "	3.00

Kentia Forsteriana—Single Plants

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 12 inches high	$1.50	$10.00	$90.00
3 " 4 to 5 " 12 to 15 "	2.00	15.00	140.00
4 " 5 to 6 " 15 to 18 "	4.50	35.00	

	Each
5-inch pots, 5 to 6 leaves, 24 inches high	$0.75
6 " 6 " 28 to 30 "	1.00
6 " 6 " 34 to 36 "	1.50
7 " 6 to 7 " 40 "	2.50
7-inch tubs, 6 to 7 " 40 to 42 "	3.00
8 " 6 to 7 " 45 to 48 "	4.00
8 " 6 to 7 " 48 "	5.00
10 " 6 to 7 " 4½ to 5 ft. high	6.00
11 " 6 to 7 " 5 to 5½ "	8.00
10 " 6 to 7 " 5½ to 6 "	10.00
12 " 6 to 7 " 6½ to 7 "	15.00
14 " 6 to 7 " 7 "	20.00

Kentia Forsteriana—Made-up Plants

3-inch pots, 3 plants in a pot, 15 inches high, $2.00 per doz., $15.00 per 100.

	Each
7-inch tubs, 3 plants in a tub, 36 inches high	$2.50
7 " 3 " " 38 "	3.00
8 " 3 " " 40 to 42 "	4.00
8 " 3 " " 42 to 45 "	5.00
8 " 3 " " 4 to 4½ feet high	6.00
9 " 3 " " 4½ to 5 "	8.00
10 " 3 " " 5 to 5½ "	10.00
12 " 3 " " 5½ to 6 "	15.00
13 " 4 " " 6½ to 7 "	heavy 20.00
15 " 4 " " 7 "	" 25.00



Made-up Kentia

For a complete list of other Palms as well as other seasonable stock, see our CURRENT WHOLESALE LIST.

HENRY A. DREER, Inc., 714 CHESTNUT STREET PHILADELPHIA, PA.

The above prices are intended for the trade only.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL
TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

BALTIMORE NURSERIES
California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window Boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS**. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT
JAPANESE MAPLES IN POTS

Potted Strawberries our OWN GROWING
Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

When writing to advertisers kindly mention HORTICULTURE.

APPLE TREE ANTHRACNOSE SHOULD BE TREATED NOW.

Oregon Agricultural College, Corvallis, Oregon. Apple tree anthracnose should be treated as soon after the fruit is picked as possible by spraying the trees with Bordeau mixture, 6-6-50 solution, and where the disease is very serious it is advisable to spray before picking the fruit, according to the recommendations of Professor H. S. Jackson, Plant Pathologist of the Oregon Agricultural College.

"Growers should begin to make preparations for the annual fall spraying for apple tree anthracnose," said Professor Jackson. "The disease seems to have increased during the last season, especially in orchards that were not sprayed. It is important that the spray be put on early, and in case of young orchards not bearing it may be applied at once. Where the disease is very abundant and causing serious damage, two sprayings should be put on, about three weeks apart. All these sprayings are more effective if application is made before the fall rains.

"If possible all the more seriously infected branches should be pruned out before spraying, but the spraying is more important and should be given the preference. Pruning may then follow the spraying, and all branches which are cut out should be immediately removed from the orchard and burned.

"Where cankers are formed it is best to clear out the old bark, and if wounds are large, cover the exposed wood with grafting wax or paint. The dead bark in cankers is a source of infection for three years, besides which it offers protection to various insects, especially the wooly aphis.

"As supplementary to spraying, cankers that are detected on very young trees in the winter may be prevented from developing by shaving off the thin outer layer of bark."

REGISTRATION AT THE MASSACHUSETTS AGRICULTURE COLLEGE.

Figures just received from the office of President Butterfield of the Massachusetts Agriculture College show very strikingly the remarkable growth of the college in the past fifteen and in the last five years, especially. From 132 students in 1898, the number has increased to 604 at the present time. Of these, 98 are seniors, 105 juniors, 140 sophomores, 200 freshmen, 38 post graduate students and 23 specials or unclassified. This is an increase of 357.6 per cent in fifteen years. Since 1908, five years ago, the number has increased from 278 to 604, an increase of 117.3 per cent. From a graduating class of 11 in 1898, this has increased to 90 in the class of 1913. These figures give a fair idea of the growth of the Agricultural College so far as resident students are concerned, but take no account of the establishment and remarkable growth of the Extension Service of the Experiment Station. These two divisions of the College, which come into such direct contact with the farmers of the State, must be considered, if a true conception of the growth of the College is to be secured.

Choice Hardy Climbing Roses

THE BEST OF RECENT INTRODUCTION

Prices per 100 F. O. B. West Grove. Strong Field Grown Stock

	1 Yr.	2 Yr.
Alice Aldrich, Rugosa		$12.00
American Pillar	$5.00	15.00
3 Year.. $35.00 and $25.00		
Dr. Van Fleet	7.00	20.00
Dorothy Perkins	5.00	10.00
Dorothy Perkins, White		10.00
Evangeline		10.00
Excelsa	7.50	12.50
Farquhar	6.00	10.00
3 Year $20.00		
Gardenia	7.50	12.50
Hiawatha	7.00	10.00
Lady Gay	7.00	10.00

	1 Yr.	2 Yr.
May Queen		10.00
3 Year $15.00		
Minnehaha	6.00	10.00
Miss Messman		15.00
Northern Light	7.00	10.00
3 Year $12.00		
Rambler White		70.00
Ruby Queen		10.00
3 Year $15.00		
Sir Thomas Lipton, Rug.		12.00
Tausendschon		12.00
Universal Favorite	8.00	
Violet Blue	8.00	12.00
White Dorothy	10.00	

ORDER FOR FALL PLANTING

THE CONARD & JONES COMPANY

BOX H, WEST GROVE, PENNA.

In Writing Advertisers Kindly Mention HORTICULTURE.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each.. $3.40
5 bales, each... 3.60 25 bales, each.. 3.20

Car lots. Write for prices

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

THE GARDENER'S PLACE.

Your notes in issue of September 18th on Mr. Ebel's paper read at the October meeting of the Boston Florists' Club certainly prove that Mr. Ebel knows what he is talking about when he advises that the gardener endeavor by attire, deportment and patient fidelity to foster closer confidential relationship between his employer and himself. Although it appears on the surface that many gardeners get along well with their employer, in reality they do not get along; they merely drag along for the reason that they are entirely out of harmony with their employer and are much like Mr. Ebel's critics, fifty years behind the times as far as private gardening is concerned. Their training in Europe makes them better fitted for commercial work, and if they could secure reasonable remuneration for the work done, very few of them would be on a private estate. When we hear that same old cry, "educate the gardener," he "ought to study more," etc., etc., it is sufficient to make a Missouri mule laugh. As our friend, Mr. Cameron, states, there is no class of workmen who study more along their chosen line of work than the gardener. He is at it all the time. The fact is, he studies too much gardening. If his make-up consisted of three parts of what Mr. Ebel stated and one part gardener he would be better qualified and more in harmony with his employer. He is too practical. He depends entirely on results to satisfy his employer. If we examine the horticultural make-up of most employers we find they are ignorant and many of them extremely so; consequently, the practical gardener and the ignorant employer are as far apart as the earth and the moon. It looks to me that the problem to be solved is not so much how to become a capable landscaper or a plant grower as it is how to harmonize these two.

St. Louis, Mo. D. MILLER.

Lexington, Mass.—Ed. A. Wood has sold his greenhouse property here to E. W. Austin who will continue the business. Mr Wood, who was president of the Boston Co-operative Flower Market for several years and is held in high esteem by the trade, will now retire to enjoy life on his farm.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses

FOR FALL PLANTING

Largest Assortment

THE NEW ENGLAND NURSERIES

Telephone Lexington 274 W. BEDFORD, MASS.

Mention HORTICULTURE when writing

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

Lilium Candidum, 18-20 ctms., . . . $3.75 per 100, $35.00 per 1000
Lilium Candidum, 20-22 ctms , . . . $4.25 per 100, $40.00 per 1000
Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

Gladstone. Enormous spikes of pure white flowers . . . . . $6.00 per 100, $55.00 per 1000

Queen of Holland. One of the finest; grand florist's variety, white . . . $8.00 per 100, $75.00 per 1000

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 **$50.00 per 1000**

We are now shipping them and they are very fine

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

FRESH OOLLECTED STOCK
Just Arrived

Catt. Gigas, August flowering type. Catt. Gigas Sanderiana Mammoth flowering type of April. Catt. Labiata Special collection in flowering season for dark flowers. Dormant leads, well leaved plants. Send for prices. Potted plants in sheath also ready. Orders taken now for early spring growing stock.

FREEMAN ORCHID COMPANY
G. L. FREEMAN, Mgr.
FALL RIVER, MASS.
Mention HORTICULTURE when writing.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N.
LOCK BOX 5

In writing to Advertisers kindly mention Horticulture

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Fixing Values.

At the meeting of the wholesale Seedsmen's League on the 16th inst., to consider the fixing of values on the 1913 seed crop, prices agreed on show a marked decline from those adopted a year ago, according to information which has reached us. We make this statement advisedly as we have no really official information to go by, the meetings being secret. There are two lines which are an exception to the general rule—beans and corn, and particularly the former. We learn that there is to be another meeting sometime next month to put the finishing touches to the making of prices and these will doubtless be printed in the wholesale lists of the members of the League. It is understood, however, that members are at liberty to quote or print any prices they see fit, those adopted by the directors being merely suggestive.

Seed Beans.

From reliable information at hand we do not think that the trade yet appreciates the very great shortage in seed beans, as early estimates from the growers were quite optimistic. Each successive report reduces the previous estimate and it begins to look as if the wax-podded varieties at any rate will be extremely scarce and high priced. We believe also that the Late Refugee will also be very scarce and high. Referring to the Bush Limas, the conviction is becoming general that actual deliveries will fall a little short of even the most recent estimates, and it will not be surprising if the Fordhook Bush should reach as high figures as a year ago. We assume that it is quite generally known that a very serious mix-up occurred last winter and spring on the Dreer's Bush Limas. According to information which we have received, it seems that many hundreds of bushels were shipped from California to dealers in the east, which proved to be the pole variety. Some of these beans were shipped back to California as seed stock, the result being a general disappointment to both the growers and seedsmen, and a great shortage in the Dreer's Bush of this year's crop.

Some Surpluses.

The trade is generally well stocked on most standard varieties. There are fewer shortages than for a number of years past. There seems to be a surplus of the leading biennials, such as garden beets, mangels, turnips, etc., and if these surpluses continue to pile up there will no doubt be another drop in prices before the end of the year. Very great shortages in the past few years has stimulated the growing of these items in this country on a much more extended scale than in many former years, leading to the inevitable result of an over-production. In time this surplus will be absorbed and the trade will adapt itself to the new situation.

Onions and Potatoes.

Owing to the very high prices at which onions are now selling, there is every indication of a heavy demand for onion seed the coming season. It looks as though some recent prices may require toning up before January 1.. Although seed potatoes generally are a little shorter crop than a year ago, Maine is the exception to the rule, it being generally conceded that the crop in that state is the largest ever produced, and as Maine furnishes the bulk of the seed potatoes used throughout the eastern, central and southern states, it is fortunate for those who are heavy dealers in this item.

NOTES.

Bridgeport, Ct.—Frank G. Bogart, who succeeded Levi Currier in the seed store at 97 Wall street, has gone out of business.

Toledo, O.—Henry Hirsch has leased a building at 152 South Erie street and will start in the wholesale and retail seed business about Nov. 1st. He was formerly located at Archbold, Ohio.

C. Keur & Sons, Hillegom, Holland, had many thousands of bulbs and plants on S. S. "Volturno," which was destroyed by fire on the Atlantic recently with an appalling loss of life.

In consequence of storage location, the Laughlin Seed Co. are moving their main office from San José, Cal., to Nappanee, Ind., notwithstanding that they have materially increased their onion seed acreage in California.

The Santa Barbara Daily News and Independent devoted two columns of its issue of October 17th to a description of the W. Atlee Burpee & Co. seed farm at Lompoc, Cal., and the excellent work being done there under the management of Edwin Lonsdale.

The Leonard Seed Co., of Chicago, are offering this season a limited quantity of a new type of sweet corn, which has been named Narrow Grained Evergreen. They have been working on this type for several years. It is a particularly desirable corn for canning purposes.

The new seed store opened by John Wilk at 155 West 33rd street, New York, is a neat little place, admirably located for a healthy growth, being situated nearly opposite the Pennsylvania Railroad Terminal and very accessible for gardeners and others going to and from New Jersey and Long Island.

NEW CORPORATIONS.

Urbana, Ohio—Urbana Floral Co., capital stock $25,000. Incorporators, Roger M. and Charles R. Murphy, John M., Frank R., and H. F. Good.

Los Angeles, Calif.—Imperial Seed & Plant Co., capital stock, $25,000. Incorporators, Charles T. Rea, William W. Cawthorne, O. S. Nelson, O. W. Seastrom, F. H. Ford, M. L. Germain and M. Meyberg.

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

CYCLAMEN SEED

MICHELL'S GIANT STRAIN

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

Also all other seasonable seeds.

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.
518 Market Street, PHILADELPHIA, PA.
Mention HORTICULTURE when writing

FELIX & DYKHUIS.
HIGH GRADE BOSKOOP NURSERY-STOCK
BOSKOOP-HOLLAND.



FROM HOLLAND FAR, DUTCH LADY HANDS
TO UNCLE SAM HER FINEST BRANDS.

We Specialize in

DANISH
Cabbage, Cauliflower and Root Seed
Grown by
Hjalmar Hartmann & Co., Copenhagen

NEW ZEALAND
Garden Peas
Grown by
F. Cooper Ltd., Wellington, N. Z

SWEDISH
Seed Grain
Grown by
The General Swedish Seed Co., Svaloef

These three concerns are the foremost in their line in their respective countries.

Ask for Price Lists and Information

LOECHNER & CO.
11 Warren Street, New York

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

Braslan Seed Growers Company

Large wholesale growers of Onion, Lettuce, Carrot, Radish, Mustard, Parsnip, Parsley, Celery, Asparagus, Beet, Endive, Leek, Salsify and Sweet Peas.

SAN JOSE, CALIFORNIA

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

FOTTLER FISKE RAWSON CO., BOSTON

LILIES

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

MUSHROOMS

Barter's Peerless Brand

$6.50 100 lbs.

Our treatise how to succeed included

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

Mention HORTICULTURE when writing.

REMOVAL NOTICE

We are Now Permanently Located At Our New Address

98 Chambers Street, N. Y.

Between Broadway and Church Street

Telephone 6138 Barclay

BURNETT BROS., - Seedsmen

NARCISSUS

PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS

1000 per case, $10.00

WEEBER & DON

Seed Merchants, 114 Chambers St., New York

Mention HORTICULTURE when writing

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

JOHN WILK

155 W. 33rd St., NEW YORK

Full Line of Bulbs for Fall Planting

Quality my first consideration

Mention HORTICULTURE when writing.

When writing to advertisers kindly mention HORTICULTURE.

FREESIA

	100	1000
Refracta Alba, ⅜ to ½-inch diameter	$0.60	$4.00

LILIUM HARRISII

	100	1000
5 to 7-in. circumference	$4.00	$35.00
6 to 7-in. circumference	5.00	40.00
7 to 9-in. circumference	7.50	70.00
Roman Hyacinths, 12-15	8.00	28.00
Narcissus, Paper White Grandiflora, 13-15	1.25	8.00

Have you our Florists' Catalogue?

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T 17) NEW YORK, N. Y.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place

NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1882
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Norfolk, Va.—Blick, the Florist, Arcade.

Atlanta, Ga.—Lawrence Floral Company.

Carlisle, Pa.—Thomas Conlon, North Hanover street.

Brattleboro, Vt.—Carl S. Hopkins, 117 Main street.

Cincinnati, O. — Main Floral Company, Main street.

Crookston, Minn. — Johnson & Hetter, Second street.

STEAMER DEPARTURES

Allan.

Pomeranian,	Montr'l-London.	Nov. 2
Virginian,	Montreal-Liverp'l	Nov 4
Scotian,	Montreal-London....	Nov. 9
Tunisian,	Montreal-Liverpool.	Nov. 11
Parisian,	Boston-Glasgow....	Nov. 15

American.

New York,	N. Y. S'hampton .	Nov 7
St Paul,	N. Y.-S'hampton...	Nov. 11

Atlantic Transport.

Minneapolis,	N. Y.-London	Nov. 1
Minnehaha,	N. Y.-London...	Nov 8

Cunard.

Lusitania,	N. Y.-Liverpool...	Nov. 5
Ultonia,	N. Y. Medit'n. .	Nov 6

French Line.

La Lorraine,	N. Y. Havre .	Nov 5
Niagara,	N. Y. Havre .	Nov. 8

Hamburg-American.

K's'n Aug. Vic.,	N. Y.-H'mb'g.	Nov. 6
Pretoria,	N. Y. Hamburg .	Nov. 15

Holland-America.

New Am'dam,	N. Y. Rot'dam.	Nov 4
Noordam,	N. Y.-Rotterdam	Nov 11

Leyland.

Devonian,	Boston Liverpool..	Nov 8

North German Lloyd.

K'p'z'n Cecilie,	N. Y. Br'm'n.	Nov. 6
Bremen,	N. Y.-Bremen.....	Nov. 8
K'r W. der G.,	N. Y.-Br'm'n.	Nov. 11

Red Star.

Zeeland,	N. Y.-Antwerp .	Nov 5
Lapland,	N. Y.-Antwerp .	Nov 12

White Star.

Cymric,	Boston Liverpool..	Nov. 4
Adriatic,	N. Y.-Liverpool....	Nov. 6
Megantic,	Montreal Liverp'l.	Nov. 8
Oceanic,	N. Y.-S'hampton....	Nov. 8
Celtic,	N. Y.-Liverpool.....	Nov. 13

Passaic, N. J.—W. L. Hundertmark, 43 Bloomfield avenue.

Columbia, S. C.—Rose Hill Greenhouses, 1544 Main street.

East St. Louis, Mo.—Grimm & Gorly, Mr. Uhlschmidt, manager.

Red Bank, N. J.—Red Bank Flower Shop, Broad, near Front street.

North Adams, Mass.—A. J. Boothman, Wellington Bldg., State street.

Sidney, O. — Harry Van De Grift, "The Flower Shop," North Ohio Ave.

Detroit, Mich. — Carl A. Schmidt, Lewis Jarrendt and Wm. Reuther, North Saginaw street.

San Francisco, Cal.—A new wholesale house has been opened at 35-37 Lick Place by the General Floral Supply Company. The firm is composed of J. M. Perusina and S. T. Beatie.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
28 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
36 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
1214 F ST., NW.
WASHINGTON, D.C.
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Le Roy, N. Y. — A. King succeeds Fred Walter in the florist business at 74 North street.

Savanna, Ill. — Fred C. Jenks has purchased half the interest in the Savanna Greenhouses.

Urbana, O.—The Urbana Floral Co. has purchased the property of the Reeser Floral Company.

Pomona, Calif.—M. K. Zinner has purchased the interest of his partner, A. W. Pooley, and will continue the business.

Chicago, Ill.—Otto Goerisch will enter into partnership with Al. Fisher, the florist, at North Clark street. Mr. Goerisch was formerly employed by the A. L. Randall Company.

Kearney, Neb.—The Davidson Floral Company of Holdredge, has purchased H. S. Thompson's interest in the Kearney Floral Company, which now makes them sole owners of the business.

BE PREPARED
FOR THE
HOLIDAY RUSH
Lay in your stock of Ready-made Paper Pot Covers, Mats, Waterproof Crepe Paper, and Two-toned Scalloped-edge Crepe Paper.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

Of Interest to Retail Florists

HOME MERCHANT SHOULD NEVER HAVE DULL TIMES.

Nothing wins so well as constant work. Often we hear a merchant complaining about dull times. Perhaps his neighbor is doing a rushing business, for the simple reason that his neighbor keeps busy. If customers are not coming in so rapidly as he might wish the busy man takes time to get busier and devises some new scheme to bring trade to the store.

Perhaps he busies himself in rearranging his goods in attractive manner on the shelves and in the showcases. If he finds some of the clerks who are complaining of its being dull he immediately gets those clerks busy getting out old goods and arranging them in a manner that he can carry on a cleaning up sale to advantage.

There is always lots of work to do. How many times do we find merchants who complain of dullness sitting inside and vainly endeavoring to look through windows covered with dust and dirt? How many times do we find the man who says there is nothing to do looking at a display of dirty goods?

Don't you forget it—if you have any business to look after you have something to keep you busy all the time. Nothing like keeping busy about the store. It is sure to pay in the end. Even the novice can keep busy reading some good trade paper and posting up on commercial ideas and make a winning thereby.—*Grand Island Independent.*

ST. LOUIS CLUB AND SOCIETY NOTES.

The Apple Growers' Congress will hold its annual meeting here November 12..

The Engelman Botanical Club will resume its meetings this month, the first will be held with the opening of the chrysanthemum show at the Missouri Botanical Garden. All meetings this winter will be held in the afternoon.

The Florist Club Publicity Committee held its meeting on Oct. 21st, at Windler's wholesale house and mapped out plans for publicity this winter. Officers elected were: R. J. Windler, chairman; W. S. Wells, secretary, and Carl Beyer, treasurer. A full report of this meeting will be made to the Florist Club at its meeting November 13th.



WASHINGTON NOTES.

Among the European tourists who have just returned is Mrs. J. L. Loose, who has been spending the summer in France.

J. A. Philipps, of Fourteenth street, Northwest, is now in Los Angeles, Cal., where he will remain for some time.

Miss Elanore Carpenter, who for the past four years or more has presided over the office of the Washington Florists' Company, is receiving congratulation upon her marriage to Mr. Jenkins, of the Bureau of Chemistry, of the Department of Agriculture.

W. P. Richards, assessor for the District of Columbia, announces that those merchants in the various lines, including the florists, who wish to continue doing business, if they have not already renewed their licenses, should do so at once. Nineteen thirteen licenses expired on October 31.

The division of entomology of the Canadian Department of Agriculture and the board of agriculture of Scotland will hereafter inspect, certify and seal all plant shipments destined for the United States in compliance with the inspection and certification requirements of the Department of Agriculture of this country under the plant quarantine act.

The Florists' Club of Washington will tender to Fred H. Kramer and Adolph Gude and the other Minute Men of America who recently participated in the maneuvers of the German Army, and to Theodore Diedrich, who recently returned from an extended visit in Germany, a reception and oyster roast at the Elks' Hall, on Tuesday, November 4. The committee in charge have also arranged for suitable entertainments and a number of surprises may be looked for. Edward S. Schmid is chairman and George Dalglish and Elmer Mayberry, members.

Among the visitors the past week were Henry M. Robinson, of Boston, Mass.; Charles E. Meehan, of Philadelphia, Pa., and Mr. and Mrs. Albert Small of New York.

St. Albans, Vt.—The florist business of George Cooke, South Main street, has been sold to Charles Kennedy, a former employee, and Dennis Ledoux.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists' Telegraph Delivery Association

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

LISTEN HERE

A First-Class Certificate of Merit and a Highly Commended Award were given by the judges in the Trade Exhibition at Minneapolis to Novelties in our Display of Florists' Supplies—the most extensive and complete exhibit in its class. All New Goods. Sterling Novelties now offered for the First Time.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

CHICAGO NOTES.

L. Nielsen has opened up a new store on Chicago avenue near California avenue.

H. E. Philpott has donated a fine cup to the Cook Co. Florists' Association to be given to the member making the highest individual score for the season in bowling.

Members of the Cook County Florists' Association are wearing a new gold button of a very neat design. It has a hand—enameled pansy in the center in delicate shade of purple and a band of blue enamel with the lettering in gold, "Cook County Florists' Association," and the motto "Unity."

Fleischman Floral Co. are having their fourteenth anniversary sale this week which is announced in a full page ad. in the Chicago Tribune of Oct. 28th. The publicity campaign adopted by this firm together with the high grade of stock they send out shows for itself in the amount of business done.

Chicago retail florists received a great many orders for the funeral of the late Adolphus Busch of St. Louis, Mo. Geo. Weinhoeber and two assistants from Fleischman's and Wm. Wolf from A. Lange's went down with their orders to see that everything was delivered in good condition. They report the quantity of flowers was the largest ever seen at any funeral in the west and represented every conceivable sort of design and emblem.

Last year Captain Herman Schuenemann and his Christmas tree ship, the Rouse Simmons, went down in the November gales on Lake Michigan with all on board and nothing was ever heard or found of the captain or crew, as told in HORTICULTURE at the time. This year the captain's widow is in the woods of northern Michigan superintending the getting out of a shipload of Christmas trees and greens for the Chicago market, while her 20-year-old daughter, Elsie, is looking after the business part of the transaction in Chicago. HORTICULTURE sincerely wishes them success in their undertaking.

Visitors—Mr. Fox, Jr., of J. M. Fox & Son, Milwaukee, Wis.; A. Schutz, Hammond, Ind.

Pittsfield, Mass.—Max Engelmann, who has been with T. I. Drake for the last fifteen years, succeeds him. The business will be known as the Drake Greenhouses.

NEWS NOTES.

Paterson, N. J.—James Smith, formerly of Stoutenborough & Smith, has started in business for himself at 113 Market street.

Weldon, Pa.—J. F. Birmington of Switchville, has purchased the greenhouses and stock of the late Ed. D. Drown, and will continue the business.

Des Moines, Ia.—A hail storm on Oct. 10th, damaged the greenhouses of the J. S. Wilson Floral Company and the Iowa Seed Company to the extent of about $1,000 each.

Woburn, Mass.—C. B. Johnson, who purchased the estate and greenhouses of Arthur Griffin, is making preparations to soon add another house about 65x200 ft. Mr. Johnson is watching the behavior of several promising carnation sports—among them a white Pink Wonder.

S. E. Spencer, the gladiolus grower, finds Woburn soil ideal for his favorite specialty. The bulbs which he is sending out this fall are extra fine. Mrs. Pendleton, L. Merton Gage's masterpiece, has been glorious this year.

Washington, D. C.—The thirteenth annual Government Chrysanthemum show will open under the auspices of the Department of Agriculture on Wednesday morning, October 29, at 9 o'clock in the Government gardens, 14th and B streets, N. W. The exhibition will be open to the public without ticket from 9 A. M. to 9 P. M. daily, and will continue for about two weeks.

In addition to the standard varieties and novelties there will be shown some unusual Department seedlings which as yet have not been named.

North Cambridge, Mass.—John McKenzie, the prosperous plant grower, is greatly taken with Nephrolepis Roosevelt. Its broad fronds and wavy-edged pinnae are extremely handsome and we agree with Mr. McKenzie that it far excels the old Bostoniensis. Seven thousand azaleas arrived this week. If all the Belgian azaleas are as good this year as the Mme. Petricks we saw Mr. McKenzie unpacking, then the buyers have cause to rejoice. Chrysanthemums are being rapidly harvested and their place is snapped up for ardisias, poinsettias and azaleas without any delay.

PERSONAL.

Azel Harvey Gregory and Mary Ella Marcy, proprietor of the Miles City Greenhouses, Miles City, Mont., were married on Oct. 12th.

Prof. E. K. Thomas, of the Rhode Island State College, Kingston, was married to Miss Alice E. Beale last week at the bride's home in Sandwich, Mass.

Miss Gertrude A. Norton, eldest daughter of M. H. Norton, ex-president of the S. A. F., was married on Wednesday evening, October 29th, to Fred W. Carter, at Dorchester, Mass.

John Dunbar, assistant superintendent of Rochester (N. Y.) Parks, while visiting Boston this week was called home by a telegram to the effect that Superintendent C. C. Laney had been taken suddenly ill and removed to a hospital for an operation.

St. Louis visitors: Sam Seligman, New York; Guy Reyburn, representing A. Henderson & Co., Chicago.

Philadelphia visitors: Charles A. Dards, New York City; J. H. Pierce, Baltimore, Md.; Mr. Hobbs, of Mann & Brown, Richmond, Va.; Mr. Saltford, Poughkeepsie, N. Y.; Mr. Whipple, Jacksonville, Fla.; Frank Johnson, A. L. Randall Co., Chicago, Ill.; Antoine Leuthy, Roslindale, Mass.; Walter Mott, Beacon, N. Y.; John Low, representing Peter Henderson & Co., New York City; Miss Semler, Milwaukee, Wis.; Miss Baumgarten of Baumgarten Floral Co., Milwaukee, Wis.

Germantown, Pa.—The widow and son of the late Robert Kinkaid will continue his florist business on West Rittenhouse street.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.
669 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

IRISH FIRE FLAME

A novelty in yellow roses, which we are handling in quantity this season.

Shorts, good flowers, 100	$4.00
Firsts, 12 inch stems, 100	6.00
Extras, 15 inch stems, 100	8.00

Include some of them in with your next order. You will find good sale for them.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

ASK THE VISITORS

to the S. A. F. Convention if we are not the Headquarters for Made-in-Chicago

RUSCUS AND RUSCUS WREATHS

Write for Samples and Prices

POEHLMANN BROS. CO., 72-74 E. Randolph St., CHICAGO, ILL.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 13			CHICAGO October 27			BUFFALO October 27			PITTSBURG October 20		
Am. Beauty, Fancy and Special	20.00	to	25.00	.00	to	35.00	15.00	to	25.00	20.00	to	25.00
" " Extra	15.00	to	20.00	20.00	to	25.00	10.00	to	12.00	15.00	to	18.00
" " No. 1	10.00	to	15.00	15.00	to	20.00	7.00	to	10.00	8.00	to	12.00
" " Lower Grades	4.00	to	8.00	8.00	to	12.00	3.00	to	4.00	3.00	to	5.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	7.00	to	8.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	3.00	to	5.00	2.00	to	5.00	2.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	8.00	to	10.00	7.00	to	8.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	4.00	to	6.00	2.00	to	.00	3.00	to	4.00
Maryland, Ward, Taft, Carnot Extra	6.00	to	10.00	6.00	to	10.00	7.00	to	8.00	6.00	to	10.00
" " " " Ordinary	.....	to	....	3.00	to	5.00	3.00	to	5.00	3.00	to	4.00
Carnations, Fancy Grade	.....	to	2.50	3.00	to	5.00	.....	to	3.00	.....	to	3.00
" Ordinary	.....	to	1.50	2.00	to	3.00	2.00	to	2.50	1.50	to	2.00
Cattleyas	.....	to	50.00	40.00	to	60.00	40.00	to	50.00	35.00	to	50.00
Lilies, Longiflorum	12.50	to	15.00	10.00	to	15.00	10.00	to	12.00	12.50	to	15.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Chrysanthemums	12.50	to	15.00	12.00	to	35.00	6.00	to	20.00	4.00	to	25.00
Violets	.35	to	.50	.50	to	.75	.50	to	.60	.35	to	.75
Daises	.....	to	.....	1.00	to	1.25	.75	to	1.00	1.00	to	1.50
Gardenias	.....	to	.....	.....	to	25.00	25.00	to	30.00	.....	to	.....
Adiantum	.....	to	1.00	1.00	to	1.25	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumous, Strings (100)	25.00	to	40.00	50.00	to	75.00	40.00	to	60.00	.....	to	50.00
" " & Spren (100 bchs.)	15.00	to	25.00	25.00	to	50.00	5.00	to	50.00	35.00	to	40.00

BUY BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ATLANTA
COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

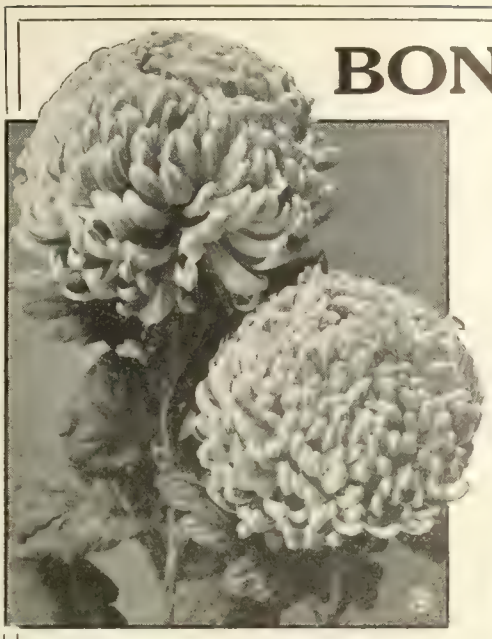
BOSTON Trade is very quiet this week. Chrysanthemums loom up strong in long ranks on the tables of wholesalers and market dealers and all other flowers seem to have been crowded out of notice for the time being. Large chrysanthemums of the exhibition type do not figure noticeably in this market; medium flowers are the rule among the commercial growers and the excessively large blooms are seen only on the exhibition boards, where they do not attract the attention which they formerly did. Roses are plentiful and cheap. Carnations are rapidly accumulating, many being sold at cut rates after a sojourn in the wholesaler's ice boxes waiting in vain for a buyer. All told there is plenty of everything and no scarcity in sight so long as chrysanthemum rules.

BUFFALO There has been very little change in market condition. Roses continue to come in heavy and chrysanthemums has been in good supply. Pompons are coming on and have taken well. The receipts have been heavy on everything except carnations which, have been on the short side. Dahlias and cosmos continue to come in but there is very little sale for these. Violets are good, but the demand lacks. Lilies are coming in more plentiful and good sales have been had. Some callas, also which sold readily. Lily of the valley is in good supply. Orchids are not moving well. Asparagus and other greens are in normal supply. It cannot be said that trade is quiet though some dull days were had last week.

CHICAGO The chrysanthemum is now occupying the center of the stage. Offerings of the popular fall flower are increasing daily. The old favorite mid-season sorts such as Ivory—both pink and white—Bonnaffon, and a few Appletons have made their appearance, together with a host of the newer varieties too numerous to mention. So far the influx of stock can't be called a glut, the market being able to take care of the daily arrivals, but prices have somewhat weakened all along the line. Pompons are not over plenty as yet, and meet with fair demand. Roses are about equal to the demand, except the shorter lengths in white, which are rather short in supply. Carnations still are the scarcest article on the market and the growers hold out small hopes for an increase in the output for several weeks to come. Lily of the valley is enjoying an excellent demand and so are lilies. Violets, on the other hand, are moving rather slowly, particularly the double of which larger quantities are received than the market can absorb, and although the quality is improving still the stock is far from being up to standard.

CINCINNATI The demand for the early All Saint's and All Soul's Day decorations was the only redeeming feature of last week's market. This, naturally, was only on Friday and Saturday. On those days nearly everything that sold at a cheap or reasonable price, considering the crowded market, was cleaned up nicely. During the balance of the week average sales were ordinary and the price medium. For carnations the demand has been sufficient to take up all good receipts and maintain a price that was fair, taking into consideration the falling prices in other lines. Chrysanthemums enjoy a fair demand but there are so many of them that the returns do not up to this time reach a high point. Some varieties sell at about one-half the figure they sold at in other years. Roses continue in good supply. The receipts include a fine crop of fine Richmonds. The

(Continued on page 615)



BONNAFFON

Splendid flowers, well grown, every one of them, almost exhibition blooms.

$2.00, $2.50, $3.00 per doz

Plenty of other varieties, pink, white and yellow.

$1.00, $2.00, $2.50, $3.00 per doz.

VALLEY—Special, $4.00 per 100; Extra, $3.00 per 100.

CATTLEYAS:

	Doz	100
Special	$6.00	$40.00
Extra	4.00	25.00
First	2.50	15.00

The third grade quoted are perfect flowers but small size. Special prices in large quantities.

Business Hours From 7.30 A.M. to 6.00 P.M.

Headquarters for Greens

WILD SMILAX. $5.00 per case.
BRONZE GALAX. $2.00 per 1000.
GREEN GALAX. $1.00 per 1000, $7.50 per 10,000.
GREEN LEUCOTHOE. New crop. $1.00 per 100, $7.50 per 1000.
AUTUMN FOLIAGE. 50c per bunch.
GREEN SHEET MOSS. $3.50 per bag.
ASPARAGUS STRINGS. 50c, each.
ASPARAGUS and SPRENGERI bunches, 50c, each.
SMILAX. 20c, per string.
CUT HEMLOCK. $2.50 per bundle.
HARDY DAGGER FERNS. Best quality, large fronds. $1.50 per 1000.
SPHAGNUM MOSS. Burlapped, 10-bbl. bales, $3.75 each; 5-bale lots, $3.50 each; 10-bale lots, $3.25 each.
MEXICAN IVY. $1.00 per 100; $7.50 per 1000.

Ribbons & Supplies Many new patterns in exclusive Ribbons. If you did not receive one of our new Catalogues, advise us and we will mail you a copy promptly.

P M QUALITY

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

Philadelphia 1608-20 Ludlow Street
New York 117 West 28th Street
Baltimore Franklin and St. Paul Sts.
Washington 1216 H Street, N. W.

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON October 30			ST. LOUIS October 27			PHILA. October 27		
Roses									
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.50	to	16.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	2.00	to	5.00	4.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" Ordinary	1.00	to	4.00	2.00	to	3.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	1.00	to	4.00	2.00	to	3.00	1.00	to	3.00
Maryland, Ward, Taft, Carnot, Extra	5.00	to	8.00	6.00	to	8.00	4.00	to	8.00
" " " Ordinary	1.00	to	4.00	2.00	to	4.00	1.00	to	3.00
Carnations, Fancy Grade	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50
Cattleyas	30.00	to	40.00	40.00	to	50.00	25.00	to	50.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	8.00	to	12.50
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Chrysanthmums	6.00	to	16.00	8.00	to	20.00	3.00	to	20.00
Violets	.50	to	.60	.25	to	.35	.10	to	.50
Daises	.....	to	1.00	.....	to	.....	.50	to	1.50
Gardenias	.....	to	25.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	15.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad Sq 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 25 1913	First Half of Week beginning Oct. 27 1913
Cattleyas	15.00 to 25.00	15.00 to 25.00
Lilies, Longiflorum	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	6.00 to 35.00	6.00 to 35.00
Violets	.15 to .90	.15 to .50
Daises	..... to .50	..... to .50
Snapdragon	.... to	..... to .....
Gardenias	15.00 to 25.00	15.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 15.00
Asparagus Plumosus, strings (per 100)	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr.
WHOLESALE ONLY
76 Maiden Lane, ALBANY, N. Y.
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Secy.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST., NEW YORK CITY
Special Attention to the Shipping Trade

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Oct. 25 1913	First Half of Week beginning Oct. 27 1913
American Beauty, Fancy and Special	12.00 to 20.00	12.00 to 25.00
" " Extra	10.00 to 12.00	10.00 to 12.00
" " No. 1	6.00 to 8.00	6.00 to 8.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 4.00	3.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 4.00	3.00 to 4.00
" " Ordinary	.50 to 2.00	.50 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

Flower Market Reports

(Continued from page 613)

NEW YORK Beauty cut is adequate. The lily supply is not very large but enough to take care of all calls. Lily of the valley sell well. A few snapdragons are offered. Orchids have been proving good property.

The high water mark of the chrysanthemum inundation is now pretty near and the usual effect of the overwhelming influx of blooms is plainly seen in the wholesale markets where one finds little room in which to move about on account of the stacks of crates, some of them big enough to hold a man. Sales are large but at low figures and the situation is well reflected in the indifferent attitude of the buyers, who realize that everything is in their favor. Roses have never been so cheap as they are now. On the other hand it is interesting to note the good demand for carnations at full values and this at a time when the chrysanthemum is so insatiate a competitor. Cattleyas are selling very low notwithstanding high quality and violets are scarcely in the running as a factor in the market. How long these conditions will last nobody can predict but it is generally conceded that the chrysanthemums must recede before anything else gets much of a chance.

PHILADELPHIA The long-looked-for frost came last week and dahlias and other outside stock that have befogged the market have disappeared to a large extent. Chrysanthemums are of course, supreme now. There are rather too many of the lower grades and the warm dark weather has been against the substance and keeping qualities of some of the choicer stock. American Beauty roses are plentiful and demand rather sluggish. The new roses Mrs. Russell and Jonkheer are in brisk demand; the local trade are grabbing most of these in sight and leaving very few for outside shipping. The orchid market has a much improved tone; demand has been excellent and there are plenty of good flowers and in considerable variety. Gardenias are still on the scarce side. Violets are improving in quality, especially the singles. Doubles are not as good as they might be.

ST. LOUIS The market last week was about as much loaded up with stock as was reported the week previous and only for the great demand the latter part of the week for the Adolphus Busch funeral the situation would have been much worse. Every florist had something for this event and the commission men cleaned up their surplus last three days of the week although at moderate prices. The horse show which opened this week, should create some further demand for extra fine stock.

WASHINGTON Business is beginning to pick up and it is about time for things have certainly been dull for the past few months. The heavy frost of last week caused the demise of the dahlia crop. There are plenty of all flowers to be had with few exceptions, among the latter being cattleyas, of which the supply is just about equal to a small demand, and gardenias are very scarce. Carnations are much better than they have been and are meeting with ready sale. Spray orchids of exceptionally fine quality are to be seen at a number of the stores. The chrysanthemum crop is very heavy and among the leading varieties are White Touset, Pacific Supreme, Chrysolora, and Polly Rose. The demand for lily of the valley should be quite heavy during the next few weeks due to the number of weddings scheduled to take place. At present it is fairly plentiful.

BOSTON CO-OPERATIVE FLOWER MARKET.

The annual dinner of the stockholders and stallholders of The Boston Co-operative Flower Market, will be held at the Quincy House, Boston, Saturday evening, November 1st, at 6.30 o'clock sharp. Ladies are invited and a delightful social occasion is anticipated.

CINCINNATI NOTES.

Reports from Newport are to the effect that Chas. McCrea, of Hardestz & Co., is sure to be one of the four winners at the polls in the race for Commissioners of the city of Newport.

Miss Laura Murphy, daughter of Wm. Murphy, has gone south for the fall and winter.

Visitors: E. E. Schaefer, Dayton, O.; N. H. Moses, Petoskey, Mich.; W. E. Hamilton, Greensburg, Ind.

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 58

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Lilium Candidum and Other Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Wilk, 155 W. 33rd St., New York.
Bulbs for Fall Planting.
For page see List of Advertisers.

Weeber & Don, New York.
Mammoth Narcissus Bulbs.
For page see List of Advertisers.

J. J. Wilson Seed Co., Inc., 79 Orange St., Newark, N. J.
Gold Medal Holland Bulbs.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

To close out. Brooklyn Field Plants: First size, $4.00; smaller, $3.00. STAFFORD CONSERVATORIES, Stafford Springs, Conn.

Extra fine field grown Enchantress, $4.00 and $3.00 per 100 (cash), while they last. This is what Mr. Ellis, Chettenango, N. Y., writes: "Received plants, which were extra fine. Am very well pleased with them. If everyone would fill orders to please like that we would all be better off." M. J. SCHAAF, Dansville, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Harlowarden Greenhouses, Greenport, New York.
Stock Chrysanthemum Plants.
For page see List of Advertisers.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash. J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

For List of Advertisers See Page 591

FERTILIZERS—Continued.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J. Horse Stable Manure. For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City. Mak-Gro, Odorless Plant Food. For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y. Davidge's Special Phosphorus. For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass. For page see List of Advertisers.

American Importing Co., 219 So. Dearborn St., Chicago, Ill. For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston. For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa. For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa. For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia. For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston. For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C. For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass. For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y. For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich. For page see List of Advertisers.

Syracuse Pottery Co., Syracuse, N. Y.

FUNGINE

Aphine Mfg. Co., Madison, N. J. For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich. For page see List of Advertisers.

Kervan Co., New York. For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md. For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich. For page see List of Advertisers.

John McKenzie, North Cambridge, Mass.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y. Gladiolus America. For page see List of Advertisers.

100,000 Giant Flowering Childsi and Silver Trophy Florists' Lt. Mixt., small sizes, $2.50 to $6.00 per 1000. Bulblets, 50c. per qt. All clean northern grown stock. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago. For page see List of Advertisers.

GLASS—Continued

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y. For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa. Peerless Glazing Point. For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston. For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y. For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J. For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Metropolitan Material Co., Brooklyn, N. Y. For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y. For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass. For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J. For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York. Designer and Builder. For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Lord & Burnham Co., 1133 Broadway, New York. For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y. King Channel Gutter. For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y. Iron Gutters. For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America. J. G. Esler, Saddle River, N. J. For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich. For page see List of Advertisers.

The Kervan Co., New York. For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago. For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa. For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass. For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J. For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J. For page see List of Advertisers.

Henry A. Dreer, Inc., Philadelphia, Pa.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass. For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y. For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J. Aphine and Fungine. For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md. Standard Insecticides. For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo. Aphis Punk and Nikoteen. For page see List of Advertisers.

Interstate Tobacco Co., Inc., 1397-1399 Avenue A, New York. "Tip-Top" Brand Tobacco Powder. For page see List of Advertisers.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide. New York City.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each. JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md. For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y. For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y. Horse Shoe Brand. For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass. Lily Bulbs. For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y. Horticultural Importers and Exporters. For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York. Cold Storage. For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y. For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y. For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y. Berlin Valley Pips. For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City. For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y. For page see List of Advertisers.

MUSHROOM SPAWN

Wm. Elliott & Sons, New York. For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo. For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J. Nikotiana. For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J. For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y. For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass. Hardy, Northern Grown Stock. For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn. Evergreens and Deciduous Trees. For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J. For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y. For page see List of Advertisers.

NURSERY STOCK—Continued

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

Phlox—Hardy, field-grown, Joan de Arc, Struthers, Eclaireur, Bouquet Fleuri, Sunshine, Pantheon, Bridesmaid, $3.50 per 100; $30.00 per 1000. Mixed, all choice varieties, $2.50 per 100; $20.00 per 1000. Terms: Cash. W. E. KING, Little Silver, N. J.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass
New Sargent Rose.
For page see List of Advertisers.

Conard & Jones Co., West Grove, Pa.
Choice Hardy Climbing Roses.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.
For page see List of Advertisers.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Hatcheri and Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 591

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets from field—Princess of Wales, $5.00 per 100; cash. CHAS. H. GREEN, Spencer, Mass.

Governor Herrick, extra large clumps, clean and healthy, $4.00 per 100. Cash with order. C. W. MOECKEL, Fitchburg, Mass.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

AZALEAS — BOSTON FERNS — ARDISIAS.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

CLEVELAND'S BIG FLOWER SHOW.

John Boddy, City Hall, Cleveland, Ohio.
For page see List of Advertisers.

DANISH, NEW ZEALAND AND SWEDISH VEGETABLE SEEDS.

Loechner & Co., 11 Warren St., N. Y.
For page see List of Advertisers.

DREER'S KENTIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

GLADIOLUS BULBS.

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

WHOLESALE FLORIST

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

WHOLESALE FLORIST.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—On private place, greenhouse assistant, French experienced with outside roses. Good character. Willing to do any kind of work. Wages $50 per month. Write J. MACFARLANE, Geneseo, N. Y.

SITUATIONS WANTED

WANTED—Situation in florist greenhouse establishment. First-class grower of carnations and bedding stock. "H," care HORTICULTURE.

FOR SALE

FOR SALE—An old-established flower and plant growing establishment, ten miles from Boston. Ten acres of land and six houses, of which one is new, 30 x 250. There are two dwelling houses on the place, also stable and out-buildings. Soil has fine record for roses and violets. Price low and terms reasonable. Owner is moving to another place. Address N., care HORTICULTURE, Boston.

FOR SALE—At a bargain, 8 acres of land, finest soil in Illinois; located on section line on northwest side of Chicago; city water, convenient to two R. R. stations, stone road to property; for particulars on this and other property suitable for greenhouse plants, address PETER PEARSON, 5732 Gunnison St., Chicago.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

ILLUSTRATIONS

ARE

MONEY-MAKERS

FOR

ADVERTISERS

A good illustration is often the means of making a sale, especially if it shows something new or novel.

We have in stock many of the cuts used in our reading articles, all of which show the best type of the subject illustrated and in an effective manner.

They should all prove effective for catalogue or advertising purposes and can be secured at about half price.

Tell us your requirements and we will send you proofs of cuts nearest suited to your needs.

HORTICULTURE PUBLISHING COMPANY

11 Hamilton Place, - Boston, Mass.

NEW PUBLICATIONS.

Commercial Gardening: A Practical and Scientific Treatise for Market Gardeners, Market Growers, Fruit, Flower and Vegetable Growers, Nurserymen, etc. By Many Practical Specialists, under the Editorship of John Weathers. This is an English work which is being brought out in this country in a 4-volume edition by The Macmillan Company, New York. The price is $15.00 net. The work covers a wide range of topics, treated primarily and chiefly from the commercial point of view, with the aim to show how to make gardening pay and meet the needs of the grower who has to make a livelihood by selling garden and greenhouse produce.

Volume I deals with the principles of plant physiology. It contains a vast amount of information that every reader can profit by. The general aspects of commercial gardening are naturally considered from a British view point and vary more or less widely from what experience has taught us in this country, but the chapters on the science of plant growing, for which John Fraser appears to be largely responsible, are comprehensive and valuable. The science of the soil, manures, insect pests, fungicides and insecticides, are gone into with elaborate detail and contain an answer to about every question, however minute, which might confront the grower.

In justice to our readers, however, it becomes our duty to review a work of this character, solely from the standpoint of American conditions and we must say that the chapters on greenhouse building and heating are far from being applicable to this country. Again in Vol. II, in the chapters devoted to Hardy and Half-Hardy Herbaceous Plants, Bulbs and Flowers, the American reader will get something of a shock in finding calendulas, China asters, Cobæa scandens, castor oil plant and amaranthus so classified and, in the section which treats of Stove and Greenhouse Plants, to find alternantheras, balsams and petunias included under this heading. In the list of commercial Acacias he will miss three of our best favorites in this country, viz., Bayleyana, pubescens and longifolia; under Begonias he will look in vain for Glory of Cincinnati, and the chapters on Carnations and Roses, while they may be just right for British growers, can hardly appeal to their American cousins. A splendid chapter on the Life History of Ferns is contributed by Chas. T. Druery, and also a most excellent one on Cyclamen Growing by John May.

Vol. III treats mainly on commercial fruit growing in England, Scotland and Ireland, and while there is here much useful information, especially in regard to insects and diseases, the varieties recommended are not those familiar to the American fruit market. Our two leading pears, for instance, Bartlett (Williams' Bon Cretien) and Seckel, do not appear in this list. There are several good chapters on garden surveying, levelling and mensuration and on methods of keeping market garden accounts.

In Vol. IV, trees, shrubs and woody climbers occupy one section. The lists as given would need to be changed considerably for our climate, especially in the chapter devoted to conifers and taxads. Vegetable growing for market takes up the larger part of this volume, and here, as in Vol. I, is found much information of general application.

The volumes are beautifully bound and there is a wealth of high-class illustrations, many of them presented in natural colors. A number of old-fashioned wood cuts have, however, been inserted, which add nothing.

Poland of Today and Yesterday. A Review of Its History Past and Present and the Causes Which Resulted in Its Partition, together with a Survey of Its Social, Political and Economic Conditions Today. By Nevin O. Winter.

The number of books upon Poland available for the English reader is not very large. The author of this volume has done his work well. The book is one of a series by Mr. Winter of similar scope, treating on Mexico, Brazil, The Russian Empire of Today and Yesterday, etc., all of which have been very favorably received. The author traces the downfall of Poland to the excessive development of individualism among the privileged classes and the subjugation of the great majority of the population to their will and selfish whims. When conflict with other nations came to pass Poland was totally unprepared and a realization of the hopeless situation came too late. The book is intended to convey an instructive lesson to the Anglo-Saxon of today. Many Poles are seeking our shores to make a home with us. Their influence upon our future and the composite American type that will in time be evolved, whether for good or evil may be in some degree estimated after carefully reading this authentic story of their past as a people, their religion, literature and art. The book is a thoughtful, sympathetic work, much more than a mere compilation of facts, and written in an interesting style that holds the close attention of the reader. There are 49 superb full-page illustrations. The publishers are L. C. Page & Co., Boston. Price $3.00 net.

John O'Partletts', A Tale of Strife and Courage, by Jean Edgerton Hovey. This book will take high rank among recent works of fiction. It shows talent of more than ordinary calibre. Few first books by a new writer appeal to the heart and fill the thoughts as this masterly portrayal of character woven into a simple, straightforward plot. It is a story that cannot fail to command attention and popularity and we predict for it a big sale. Published by L. C. Page & Co., Boston. Price, $1.25 net.

Hawk: The Young Osage. This is another new book just issued by L. C. Page & Co. The author is C. H. Robinson. It is a story of Indian life and customs and of adventure in the early years of American civilization. Not much plot but it will be liked especially by boy readers. The illustrations are by The Avery Studio. Price, $1.25 net.

The Martie Twins. By Alice E. Allen. A book for children, requiring no extended comment. Price $1.25 net. Published by L. C. Page & Co., Boston.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Davidge's Special Phosphorus
$2.00 per 100 lbs.
A safe fertilizer for Flowers and Plants
HUDSON CARBON CO., BALLSTON SPA, N. Y.

GREENHOUSES BUILDING OR CONTEMPLATED.

Boonville, Ind.—Ernest L. Lutz, one house.

Rochester, N. Y.—D. C. Dennison, additions.

Oaklawn, R. I.—Joseph Kopelman, one house.

Siere Madre, Calif.—Aaron F. Ward, house 26 x 66.

Greenfield, Ind.—Wm. A. Ronyer, house 18 x 100.

Woonsocket, R. I.—Charles E. Allen, range of houses.

Indianapolis, Ind.—S. T. Hitz, Brightwood, two houses.

Montebello, Calif.—H. N. Gage Company, house 16 x 175.

Wyomissing, Pa.—B. H. Farr, Garfield avenue, addition.

Wheeling, W. Va. — A. Langhans, 13th street, one house.

Greenville, Tex.—E. D. Barlow, No. Walnut street, two houses.

Providence, R. I.—D. N. Harvey, 114 Waterman street, one house.

Philadelphia, Pa.—Mrs. W. McLean, Queen Lane, conservatory, 18 x 60.

Savannah, Ga.—A. W. Richardson, rebuilding; John Wolf, two houses.

OBITUARY.

Mrs. F. L. Krekeler.

Mary Krekeler, wife of Frederick Krekeler, a well-known florist of Brooklyn, N. Y., died Tuesday, October 21, at her home, 240 McDougal street. She was born in Brooklyn sixty-two years ago, and is survived by her husband, four sons, Louis, Harry, George and Frederick; three daughters, Clara, Mrs. George Weise and Mrs. James Harvey.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

MAK-GRO ODORLESS PLANT FOOD

For Florists and General Greenhouse Work

A Scientific, Improved, Concentrated, Quick Acting, Complete Fertilizer made in ***Non-Acid Granular Form*** from the highest grade materials obtainable.

Especially adapted to

GREENHOUSE WORK
Vegetables, Fruits and Flowers

Special Formulas for General and Special Greenhouse Crops; prepared by men who have made a life study of Greenhouse work—not only in this country but abroad.

The services and advice of our experts is at your disposal on all matter pertaining to your Greenhouse problems.

MAK-GRO ODORLESS PLANT FOOD

Is put up in various sized packages, and sold in lots of from

ONE POUND TO CARLOADS

The one pound cans and small packages make a splendid side line for Florists having their own stores.

Write us for further particulars.

DEPT. 5

CONSUMERS FERTILIZER CO. Long Acre Building NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

FALL SPRAYING

Fruit trees, ornamental trees, evergreens, and all hardy stock susceptible to scale and other insects should be thoroughly sprayed before freezing weather sets in.

SCALINE will cleanse your trees and shrubs of San Jose, Oyster Shell and other hard scale, red spider, larvae of the aphis, grub of the locust borer, and other insect pests which secrete themselves in the crevices of the bark during the dormant season.

SCALINE is composed of a high grade of petroleum and the properties of the well known fungicide, **FUNGINE**; mixes readily without agitation; is used at a strength of one part to twenty parts water; containing no sediment can be applied through the finest spray nozzle, and requires no drenching of the plants, but simply misting them, to get effective results.

Gallon, $1.50; 10 gallons, $10; 50 gallons $37.50.

We answer inquiries.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — VERMINE

NIKOTIANA

British Distributors

BRITISH & AMERICAN FERTILIZING CO.

Liverpool, England.

Mention HORTICULTURE when writing

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP"
BRAND
Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.

1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Jobbers. Write for prices

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

When writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

J. B. HALL.

New Manager of The Hews Pottery.

J. B. Hall, whose portrait is here shown, has been appointed general manager of the A. H. Hews Co. pottery manufactory, North Cambridge, Mass., filling the vacancy caused by the death of Edward L. Pierce. Mr.



J. B. Hall.

Hall was with the Kingsley Iron & Machine Co. of Taunton, Mass., for ten years, as treasurer and general manager, and recently with the Texas Company, petroleums, as credit manager. He is 44 years of age.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

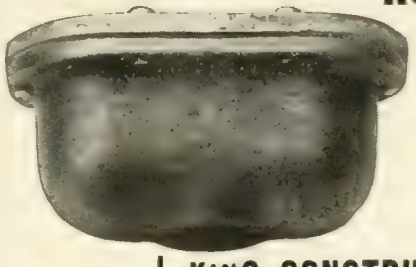
HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.

Please mention Horticulture when writing.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass.
John G. Esler, Sec'y Saddle River, N.J.

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. Price $2.00 each, charges paid.

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y
Makers of King Iron Frame Greenhouses

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

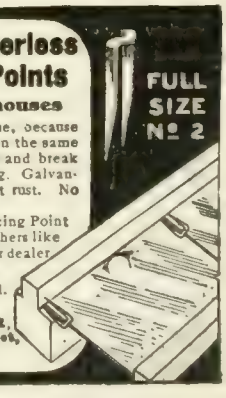
PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO
Richmond, Ind.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c postpaid.
Samples free
HENRY A DREER, 714 Chestnut Street, Philadelphia.
FULL SIZE No 2



Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



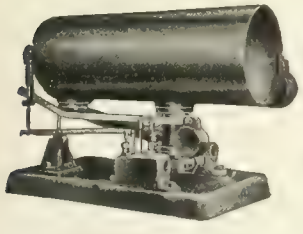
You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

Mention HORTICULTURE when writing

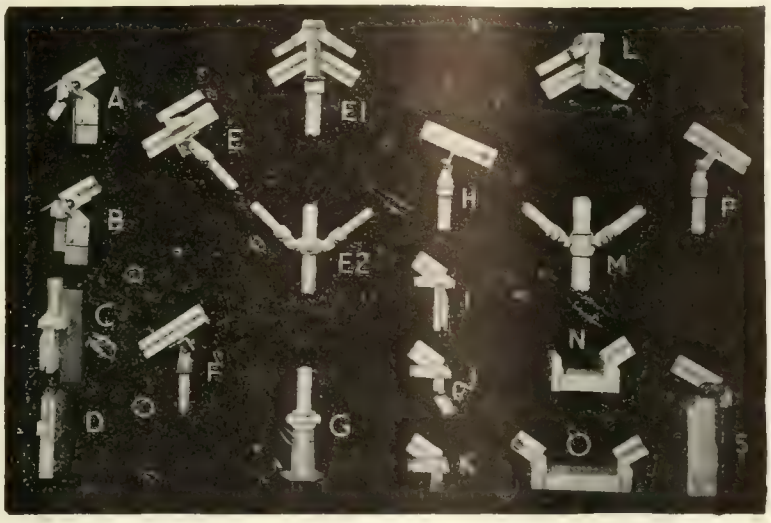


CONSULT US-ON-THE HEATING

ROB'T ROSS-JONES
HARRISBURG, PENNA.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Some of the Parts Listed in Our Supply Book.

A Vital Point Ignored

IN figuring the cost of a greenhouse, too many growers put too much emphasis on *what the materials cost* and too little on what the erection costs.

In fact, some simply don't know what it actually costs to erect their houses. They put them up during the slack season when their men can work at it at odd times. No careful record is kept of the time the men really are working on it.

Whether it's slack time or busy times, your men have to be paid just the same, and you can't dodge erection costs that way.

It has been proven over and over again that the best Iron Frame house we build, can be put up by either your men or our men, in less time than it takes to erect either an all cypress or Half Iron Frame house.

Your glass costs you the same no matter what construction you buy. So does your masonry. Your painting. Your benching. Your heating. Your ventilating apparatus.

Then why not put the cost of all those things into a Hitchings house of everlasting lastingness? This comparative cost of construction is a thing we would like to sit right down and talk over with you from a to z. We have some facts and figures that will prove mighty interesting. Lets get together, we two.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



Bricks without Straw

YOU remember that one of the little unpleasantnesses between the biblical Children of Israel and the ancient Egyptian King Pharaoh, was due to his demanding that they make bricks without straw.

The bricks of those days were crude, hand moulded affairs, baked in the sun.

Straw was mixed with the clay from the Nile, to hold it t[o] [h]er better; quite as hair is today put in wall plaster.

[W]ithout straw, looked like other bricks, but they [h]ad strength—they crumbled.

Jumping over a gap of 5,000 years, we come down to the U-Bar greenhouse and its original curved eave construction.

Other constructions may look like the U-Bar, but, like the strawless brick, it is only in the looks—the stability and durability is not there.

If it isn't made with U-Bars, it isn't a U-Bar curved eave house.

From ridge to sill, the U-Bar bars are one continuous piece of galvanized steel, no splicing—no reinforcing.

The chemically treated cypress core bars bear no weight—their only office is to form satisfactory glazing seat for putty and glass.

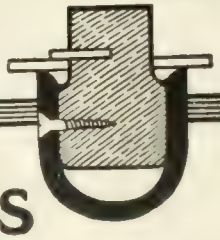
The U-Bar house is the only house built with U-Bars.

When you buy your greenhouse—be sure it's not a case of bricks without straw. Looks is one thing. Durability quite another.

Send for catalog. Send for us. Or both.



Erected for H. L. Pratt, Glen Cove, L. I. The Gardener is Henry Gaut.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. NOVEMBER 8, 1913 No. 19



Photo. by Courtesy of Mt. Desert Nurseries

ARTEMISIA LACTIFLORA

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Finest Plants Ever Offered

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING

Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.
Mention HORTICULTURE when writing

We grow large quantities of

Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.

IN 2-INCH POTS

Send for List

R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case).....	$1.25	$8.50
14 ctm. bulbs (1000 to case).....	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses

FOR FALL PLANTING

Largest Assortment

THE NEW ENGLAND NURSERIES
Telephone Lexington 274 W. BEDFORD, MASS.
Mention HORTICULTURE when writing

LILIUM HENRYI

The bulbs we offer are strong healthy stock well grown true to name.

A splendid Lily from the mountains of China, with a strong and vigorous constitution, throwing up immense panicles of flowers similar in form to the Speciosums, but the color is a deep orange yellow, banded with green.

Very easy of culture and sure to delight everyone.

Slight protection in winter is a good thing in the North.

$5.00 per dozen. $35.00 per 100. $300.00 per 1000.

JOHN LEWIS CHILDS
Flowerfield, L. I.
Mention HORTICULTURE when writing

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

AZALEAS

Extra fine Plants of the Christmas and Easter Variety.

BOSTON FERNS, ARDISIAS

Send for prices.

JOHN McKENZIE, North Cambridge, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$3.40
5 bales, each .. 3.60 25 bales, each.. 3.20

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N.J.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT

Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N.Y.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

MATCHLESS

WINNER OF TWO GOLD MEDALS

DO NOT FAIL to get in your order early for **MATCHLESS**, the **NEW COMMERCIAL WHITE CARNATION.** Superior in size, fragrance and keeping qualities.
A non-bursting, very prolific and continuous bloomer.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY. (All stock sold to Feb. 1)

PRICE FOR ROOTED CUTTINGS: $12.00 per 100; $100.00 per 1000

(ORIGINATORS)

COTTAGE GARDENS CO., Inc.

QUEENS, NEW YORK

In Writing Advertisers Kindly Mention HORTICULTURE.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.

Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....655
Albany Cut Flower Ex.....646
Allen, J. K.....646
Am. Importing Co. 643
Anderson, S. A..642
Aphine Mfg. Co..653
Aschmann, G....626
Atlanta Florist Co. 644
Ayres Co., S. Bryson 639

Badgley, Reidel & Meyer.....646
Balsley, Harry..655
Barrows & Son..628
Bayersdorfer, H. & Co.....643
Bay State Nurseries 636
Bloomingdale's, 640
Bobbink & Atkins 635
Boddington, A. T. 637
Bolgiano & Son, J. 639
Boston Florist Letter Co.....644
Breck, J. & Son.639
Breck - Robinson Nurseries 635
Breitmeyer's, J. Sons 640
Brookland Gardens 627
Bryan, Alonzo J.628
Burnett Bros....639
Burpee, W. A. & Co. 639

California Florist 641
California Seed Growers' Asso.639

Page
Chicago Carnation Co.....644
Consumers Fertilizer Co.....653
Cooke, Geo. H...642
Childs, John Lewis 626
Clarke's, D. Sons 640
Conine, F. E. Nursery Co....626
Cottage Gardens Co. 627
Cowee, W. J....644
Craig, Robt. Co.626

Dards 640
Davenport, A. M.626
Dawson, H. S...628
Detroit Flower Pot Co.....655
Doller & Sons Co. 628
Dreer, H. A..... 635-654-655
Dunlop, John H.641
Dysart, R. J....647

Eastern Nurseries 628
Edwards Folding Box Co. 644
Elliott's, W.Sons.639
Eppstein, Julius.641
Ernest, W. H. ..655
Esler, J. G 655
Eyres 642

Farquhar, R. & J. & Co.....626
Ford, W. P.....646
Ford, M. C.....646
Forrest, Frank H. 641
Fottler, Fiske, Rawson Co....639
Freeman Orchid Co. 637

Page
Framingham Nurseries 635
Froment, H. E..646
Franklin Davis Nursery Co....636

Galvin, Thos. F. 641-642
Gasser, J. M. Co.641
German Kali Works 652
Goodsell, P. H..635
Grey, T. J. Co..638
Gude Bros. Co..641

Hail Association.655
Hall & Robinson.641
Hart, Geo. B....647
Heacock, Jos....626
Heinecken, Otto.639
Henderson, A....626
Hess & Swoboda.640
Hews, A. H. & Co. 655
Hill, E. G. Co..644
Holland Nurseries 628
Hilfinger Bros...655
Holm & Olson..640
Hudson Carbon Co. 653

Industry Moss & Peat Co.....637
Interstate Tobacco Co.....652

Jacobs, S. & Sons 655
Johnson, J. Oliver 639
Johnston Bros...641
Jones, Robert Ross 655

Kasting, W. F. Co. 647
Kervan Co 646
Keller, J. B.Sons.640
Keller, J. M. Co.628

Page
Kelway & Son..639
King Construction Co.....654
Kramer, F. H...641
Kroeschell Bros.655
Kuebler, W. H..646

Lager & Hurrell.637
Lemon Oil Co...652
Leonard Seed Co.639
Leuthy, A. & Co.628
Loechner & Co..639
Lord & Burnham Co. 656

MacMulkin, E...641
May & Co., L. L.642
McCarthy, N. F. Co. 644
McConnell, Alex.640
McCray Refrigerator Co. 643
McHutchison & Co. 628
McKenna & Son, P. 641
McKenzie, John.626
McManus, Jas...646
Meyer, J. C. Thread Co 643
Michell's Seed House 638
Michigan Cut Flower Ex.....644
Millang, Chas....646
Millang, Frank..646
Montreal Floral Exchange 646
Moore, Hentz & Nash 646
Murray, Samuel.640

National Nurseryman 635
N. E. Nurseries.626
Nicotine Mfg. Co.653
Niessen, Leo Co.644

Page
N. Y. Stable Manure Co.....653

Oechslin, Frank.627
Ouwerkerk, P....628

Park Floral Co..640
Palmer, W. J. & Son 642
Parshelsky Bros.655
Penn the Florist.641
Pennock - Meehan Co 645
Pierce Co., F. O.655
Pierson, A. N...628
Pierson, F.R.Co.642
Plant Food Co., 20th Century..653
Pochlmann Bros. Co. 644
Pollworth, C. C.640
Pratt, B. G. Co..653
Pulverized Manure Co.....653

Quaker City Machine Co.....655

Randall's Flower Shop 642
Reed & Keller..646
Reid, Edw 647
Reinberg, Peter.644
Reuter's 642
Rice, M. Co.....641
Robinson Co., H. M. 646
Roehrs, J. Co... 636-637
Roland, Thomas.628
Rolker, A. & Sons 628-655
Rosery The.....640
Sander & Son...637
Scott, John.....626
Schling Max....641
Schwake, Chas. & Co 627
Sheridan, W. F.646

Page
Sharp, Partridge & Co.....655
Siebrecht, Geo.C.646
Sim, Wm.....637
Siggers & Siggers 654
Skidelsky, S. S. & Co.....638
Slinn, B. S.....647
Smith, P. J.....646
Smith & Co., E. D. 635
Smith, W.&T.Co.636
Smyth, Wm. J..640
Sprague, J. H..626
Stearns, A. T. Lumber Co....655
Stumpp, Geo. M.640

Totty, Chas. H..627
Thorburn, J. M. & Co.....639
Traendly & Schenck 646

Valentine, J. A..640
Van Assche, F..655
Vincent, R., Jr., & Sons Co....626

Wants, For Sale.651
Ward, R. M. & Co. 628
Weber, F. C.....641
Weeber & Don..639
Welch Bros.....644
Whittier & Co., W. B. 635
Wilk, John.....638
Wilson, Robt. G.640
Wood Bros.....628
Woodrow & Marketos 647
Young, John.....646
Young & Nugent.640

Zangen, O. V....638
Zinn, J. A.....641
Zvolanek, Ant. C.639

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 648, 649, 650, 651

BABY GRAND

Cases of Horseshoe Brand Giganteum are just the thing for the retail florist, who wants just a few lilies every month. These neat little boxes are packed carefully in Japan with bulbs from the very best fields — bulbs from plants that have not been allowed to flower in the field. This strengthens them, so they will stand the Cold Storage strain better. Absolutely the very best obtainable. The cases contain 100 bulbs each, and prices including storage, are as follows:

Sizes 7-9 inches $8.50 per case. Sizes 8-10 inches $11.00 per case
Larger cases 7-9 $20 per 300, 8-10 $25 per 250

Terms 60 days after shipment, or 5% for cash with order. Shipment made any time you say. Order now, so we may reserve them for you for 1914 delivery.

RALPH M. WARD & CO.

THE LILY HOUSE

Not How Cheap But How Good

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

CYCLAMEN

Best strain in existence.

4 inch $25.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

A. N. Pierson, Inc.,

CROMWELL CONN.

Bedding Plants and Roses

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

J. M. Keller Co., Inc.

GROWERS

DECORATIVE PLANTS

OF HIGH QUALITY

Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken N. J.

Mention HORTICULTURE when writing

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

Flowering, Decorative and Vegetable Plants

In abundance at all times. See our display adv in HORTICULTURE May 17th, page 750.
Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000

ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.

WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRAR
NEW YO
BOTANIC
GARDE

Antirrhinums

Many of the chrysanthemums are now gone, and few crops pay better than snapdragons as a succession crop, provided always that the selling colors are grown and a generous soil is provided for them. You can use your chrysanthemum soil by adding a good layer of cow manure over the top and mix it all through, then plant the snapdragons a foot apart each way. If big, strong spikes are wanted, allow only three to five shoots to a plant. If smaller ones are preferred double or treble the number may be allowed to grow. A winter temperature of 48 to 50 degrees will grow good snapdragons. Finer spikes may be had at 45 degrees, but this low temperature brings them on rather slowly in midwinter. When they throw up their spikes, pinch out the side shoots, which will be quite numerous. This will improve both the flowers and spikes. As they become well established they will take a liberal amount of liquid manure once or twice a week.

Lilium Giganteum and Multiflorum

Do not lose any time in getting lily bulbs potted up as they will need all their time to come right for Easter. They like a rich compost, say about two-thirds of well-decayed sod and one-third well-rotted barnyard manure. Place them beneath a bench in a cool house where they will not get much drip, as that is sure to sodden and sour the soil and promote rot. Lilies want very little water until they have made some good roots. When they have filled their pots with roots they will want an abundance. They should have good roots with a top growth of two or three inches before they are brought into heat; otherwise they will be a failure. Give them a temperature of 50 degrees for the first three or four weeks, when they can be raised gradually until you have them at 70 degrees.

Shrubs for Greenhouse Culture

Hardy, half-hardy and tender shrubs are now forced in great numbers for a trade that is growing from year to year. The greatest part of florists' forcing stock is grown in Europe. The hardy shrubs will soon be here. In unpacking the cases that have come through by direct shipment, we find that the difference in plants of the same variety and size is great enough to warrant a judicious re-assorting of the entire lot. This should be done before the stock is potted up or stored away. All evergreens and most of the half-hardy varieties should be potted as soon as possible. Lilacs, cydonias, viburnums and other hard shrubs of this class, not wanted for early forcing, may be plunged in outdoor frames for the present. A little freezing will ensure entire maturity of the wood and will fit them all the better for forcing.

Spiraeas (Astilbe)

Any one of the half-dozen or more varieties of Astilbe, usually shipped here every fall, is worthy of being included in florists' Easter and spring stock. If, when they are unpacked, they have compact and firmly matted balls of roots, which is the rule, immediate potting will not be necessary. They can be heeled in frames, and a covering with straw or manure will keep the ground so that removal at any time during midwinter will be an easy matter. No forcing of spiraeas should be attempted before the holidays and after that the time to bring them in depends on how soon in the spring they are wanted. The later the forcing begins, the less heat will be required and the finer will be the plants in bloom. In about a 55 degrees temperature it will take pretty close to three months to bring into perfection such varieties as Astilbe japonica, floribunda and multiflora, while superba, Gladstone and Blondin want a week or two more. In a heat five or ten degrees higher, it will not take so long, but the plants will be better at a lower temperature.

Tulips

All tulips succeed well in a mixture of two-thirds of well-decayed fibrous loam to one-third of very old cow manure, or as a substitute you can use hotbed or mushroom manure, and along with this it always pays to tone it up with a fair addition of leaf mold and some sand, thoroughly mixed. After the bulbs are planted, see that the flats are given a good soaking of water and place in a bulb pit, but where you have not this they can be placed outside and covered with soil to the depth of six inches. When the weather has become cold enough to form a good crust on top, cover with coarse manure in order to keep out hard frost. When these flats have filled up with roots they are ready to be forced.

Lifting Coreopsis for Forcing

These plants are very serviceable around Easter and Memorial Day. Strong clumps for this use should now be lifted and firmly potted in turfy loam three parts, well-rotted manure one part. A place just clear of heavy frost will do to keep these plants until wanted. Those required for Easter can be brought into a cool house with about 45 degrees at night, some time during early January.

Mr. Farrell's next notes will be on the following: Begonia Gloire de Lorraine; Care of Allamandas; Freesias; Rhododendrons; Paper Whites and Roman Hyacinths; Protecting the Hardy Border

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Cleaning the Early Vinery

After the vines have been pruned lose no time in pushing through the cleaning of the house, following this up with the cleaning of the vines and general renovation of the borders. There's a time limit on this job if you mean to start up on December 1st and not only should this be an incentive to have the work completed at the earliest possible date, but the vines will be benefited by being allowed to stand awhile after the overhauling before they are started up. Have the house thoroughly washed down from stem to stern, woodwork, glass, walls, etc.; every nook and corner should yield up all the live stock (in many varied forms) and all dust and dirt accumulated during the past season. This will be time well spent for to start up a house that is not clean is surely seeking trouble.

Next comes the cleaning of the vines and here let me say it may be a job that will take very little time and work or be one that needs considerable attention—one of the elastic sort. The scraping of the vine does it absolutely no good. It is not to benefit the vine that it is practised but to make the pests that are now infesting them more accessible and to leave no hiding and breeding places for them to harbor in through next season. With this in mind it follows that the state of the vines now should regulate the amount of cleaning to be done. If your vines have been clean and free from pests during the past season or seasons it is reasonable to expect with the same amount of care they will come through in the same good condition in the seasons to come. Such vines as these only need the rough and loose bark rubbed off with the hand. Now for the other extreme and the go-betweens can be gauged. Mealy bug (does the name give you a shiver?) and the much abused red spider are the two pests that are continually forcing their acquaintance upon us and were it not for these much of this work would be eliminated. By removing all the loose bark from the main rod and particularly from around the spurs most of the hiding places of these intruders will be exposed, making it easy for the washings of insecticides to do their work. When mealy bug has once got firmly established they will not be eliminated in one season. After all the work of cleaning and washing it is a hundred-to-one chance on a few finding a way out of it all and if these are not cared for all the winter work will be wasted. Where they come from is a mystery but facts are stubborn things and the fact is they come. Winter washes for vines are very numerous, most growers having some preparation that they think supercedes all others; they range from almost mud to neat insecticide. The former preparations are used with the idea of filling up the cracks and crevices so that the bug has no place for seclusion. My experience has shown that this is all right for a time but when the hot sun comes it will crack anyhow. Better to use some insecticide that you know will kill bug, using it very strong, painting the vine completely over with it two or three times, excepting the eyes. A fumigation with cyanide of potassium while the vines are dormant will also be an additional germ killer.

The border will be the next to receive attention. It is wise to remove all the loose bark, etc., before this is touched but if the rods are to have more than one washing it is not necessary to wait until this is completed before starting on the border. Young vineries may need additions, others are to have a thorough overhauling and some a top dressing only. Whatever it is have the soil on the dry side when working it. Mix in some coarse bone meal with the soil for top dressing.

Protecting the Soil From Freezing

Mention of having the soil in a workable condition in the foregoing note reminds us of the soil heaps not protected from frost. For ordinary potting purposes many places have a shed or some kind of a building where a sufficient quantity can be stored until spring where it will not freeze up or become wet. Where a quantity is needed for the fruit houses this is impossible so we have to protect it outside so that it can be used in the worst weather. There will be lots of leaves to remove from the lawns, etc., yet, and these will make a fine protection for the soil heaps. Cover the heap over to a sufficient depth to keep out frost and then cover the whole with long-straw manure to prevent the leaves from blowing away. If any kind of a temporary roof can be put on before any of the protective material it will help to keep the soil much dryer, a fact that cannot be over-estimated.

Asparagus and Rhubarb for Forcing

These are two of the most valued roots for forcing. They will start much easier if they have felt the effects of a little frost. The first batch or two can be lifted and placed in an exposed position with only enough loose straw around the roots to prevent them from drying. In this position they will feel the early frosts more than if they were in the soil at their natural depth. Look them over occasionally as the roots should not be allowed to become real dry.

Christmas Melons

To be right on time these melons should be set about now and kept going right along. Soon after the last flower has been fertilized give them some feed or they may get starved out; the soil they are growing in may be getting weaker and one of the secrets of getting good melons is to get them started good. Reduce the crop to two fruits to a plant. Warm them up well and with sun heat in the afternoons, thoroughly damping down at the time. Syringing must be kept up every bright morning or the plants will be eaten up with spider, but it will not be wise to practice it in the afternoons as the plants will not dry up by night time. Wet plants as night comes on are trouble seekers. If there are roots showing on the surface, top-dress them lightly with rich soil and keep this up while the fruit is swelling and the roots becoming through.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Ventilation on Windy Days

With the wind blowing a gale, and quite cold, it often becomes a problem to ventilate the houses properly, and yet avoid the danger of the wind doing harm. Where the houses are equipped with ventilators on both sides of the ridge, it simplifies matters somewhat, as the air can then be put on from the opposite side and the wind cannot blow into the houses as with the one-ventilator house. Plants that are hardy and have been growing in well ventilated houses will suffer very little from an occasional draft of air. Quite different, however, with the weak, overwatered and grown-too-warm plants. These will show signs of mildew at the slightest little change of temperature. It is a good idea at any rate to keep close watch on the thermometers, and see that there is not a too varied difference in the temperatures. The houses should never go below 70 in the daytime on a clear day, especially if they had been up to 78 or even 80 only a short time before. Keep a steam on the boiler, for clouds are very likely to appear, and there may be a snow squall. Where there is no steam better have a good fire in the boilers lying in readiness for any emergency. Also have the hot water slowly circulating, so that there will not be too long a time for it to get all around. As soon as the squall arrives do not shut the ventilators down tight, as is the custom in many places. Merely reduce the air down to a crack and then give the houses enough heat to keep up the necessary temperature. With hot water many will make a mistake and turn on every pipe in the house when they find the temperature dropping fast. This is very impractical, for it fills the boilers with very cold water, and thus delays the heat. A much better way is to leave the only pipes that were turned on and then stir up the boilers. Another fault of turning on all the pipes is that after the heat does get around the houses will usually run away up, and it will take a long time for them to come down. This variation of temperature is not going to do the plants any good, even though there is no visible harm done.

Fumigation

This should never be neglected. Keep right after the bugs and give them no chance to gain a foothold. It is much better to fumigate while it is raining, for then all the crevices that are in the roof and sides of the houses will be filled with water, and there will be very little if any chance for the fumes to escape. Fumigating on a dry and very windy day rarely has the desired effect, and it should be avoided if at all possible. Be sure to have the plants in good condition as to watering, for if the plants are dry the fumes may burn them here and there, or else burn the points out of the buds if not strong enough to do other harm. Buds without the points will not command the price that perfect flowers will, and it pays to be very careful. This applies to all the different forms of fumigation; it matters but little whether cyanide is used or tobacco in some form. Needless to say the houses should be fumigated at night, or the last thing before quitting at night. Then the temperature will vary but little, if the thermometer outside does not drop.

Syringing After Fumigating

Whenever it is possible to do so, arrange the program so that the plants will receive a good syringing directly after they have received a dose of smoke. This is true of spraying, too, and where spraying is resorted to altogether, it is well to spray right after the plants are syringed, for then there are countless numbers of insects that are open to attack, and if the spray can get them before they hide in the nooks and corners, it will be so many off the list. There is only one objection to spraying, and that is that it must positively be done regularly to keep the plants absolutely clean. If they are neglected only for a short time, it will take a great war to put the enemies down where they belong. With fumigation it is different, for it is not so difficult to reach all the corners with the smoke. Tobacco stems should not be used now that the plants are flowering. They are too strong, or rather contain too much waste matter which turns into noxious gases when ignited. It is much safer to use some of the tobacco and nicotine papers or extracts advertised elsewhere in the columns of HORTICULTURE.

Shaking the Plants After Syringing

After the plants have received their syringing, be sure to go over the benches very carefully, and shake the plants well, so that they will be sure to be dry by the time sundown comes. It is a very poor policy to have the plants wet at night, as they do not like it. There are many diseases that are likely to spring up if this is neglected, and the little time it takes to do it will be repaid well by the healthy growth that will result. Do not neglect the lime either, for this helps wonderfully in drying out the air around the plants.

Artemisia lactiflora

This plant which forms our cover illustration this week is a strong growing herbaceous perennial, perfectly hardy in Massachusetts, and now quite well known in gardens, being one of E. H. Wilson's early introductions from China. It grows four to five feet tall, with stems densely clothed with elegantly divided chrysanthemum-like foliage, each stem terminating in a wide pyramidal panicle two feet or more long, composed of hundreds of small, milk-white, delightfully fragrant flowers that are well adapted for use as cut flowers. This plant blooms in August and for best results should be planted in good garden soil in a situation where it will not suffer from drought. It is an excellent subject for the side of a pond or an ornamental stream, or for the wild garden. It is easily increased by divisions of the rootstock.

HORTICULTURE

VOL. XVIII NOVEMBER 8, 1913 NO 19

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Artemisia lactiflora

NOTES ON CULTURE OF FLORISTS' STOCK—Antirrhinums—Lilium Giganteum and Multiflorum—Shrubs for Greenhouse Culture—Spiraes (Astilbe)—Tulips—Lifting Coreopsis for Forcing—*John J. M. Farrell* 629

FRUIT AND VEGETABLES UNDER GLASS—Cleaning the Early Vinery—Protecting the Soil from Freezing—Asparagus and Rhubarb for Forcing—Christmas Melons—*George H. Penson*..... 630

ROSE GROWING UNDER GLASS—Ventilation on Windy Days—Fumigation—Syringing After Fumigating—Shaking the Plants After Syringing—*Arthur C. Ruzicka* 631

ARTEMISIA LACTIFLORA 631

THE FALL EXHIBITIONS—Boston—Philadelphia—
New York 633
Lenox 634
Nassau County—Elberon 636
Madison—New Bedford 638

OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 640
Flowers by Telegraph 641

OBITUARY—William F. Holtz..... 643

FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Philadelphia, New York.. 645
St. Louis 647

CLUBS AND SOCIETIES:
National Association of Gardeners..... 647
Chrysanthemum Society of America..... 652
Club and Society Notes..... 654

MISCELLANEOUS:
New White Carnation Matchless; Illustration..... 634
Field Day of Waban Rose Conservatories' Employees—Illustrated 638
News Notes 641
Washington Notes—Chicago Notes—Philadelphia Notes 642
New York Notes—Incorporated 643
Co-operative Flower Market Dinner..... 647
The Brigham Greenhouses—Illustrated..... 654
Personal 654

Cater to the public

It is interesting, and should be profitable to exhibition managers, to note the particular exhibits or classes of exhibits which receive the greatest amount of attention from the visiting public. It will be found that the classes regarded as the most interesting by the horticultural profession are not always the ones that the general public crowd about. Floral baskets, tables, mantels and decorative work for specific occasions, such as weddings, etc., are always a strong magnet for the throng. As to the various flowers which enter largely into promiscuous exhibitions it will appear almost invariably that the rose displays and orchid groups lead very decidedly in popular interest. In advertising a show or in making up press notices, such then are the points to emphasize and in preparing prize schedules for pay exhibitions, especially, it is well to keep them in mind and make as liberal provision as possible for those features that are likely to be the most potent attractions for the paying visitors.

Distribution

President Totty, in his address to the Chrysanthemum Society of America, makes a number of good suggestions worthy of general consideration. When he says that "the growing questions are being solved; the marketing questions are the ones that we have to solve," he states what is plainly evident to every observer of flower market conditions in practically all the large centres of production. The one great all-important problem for the flower trade now is how to get the product into the hands of consumers. Distribution as effected at the present time is little more than a farce. The flower trade has now reached such proportions and commercial importance, and the capital invested in it is so large, that methods which were serviceable twenty or even ten years ago are no longer adequate and the utter inefficiency of the outlet becomes more and more evident each year as the production increases. The solution of a problem so serious surely demands the best thought of our most capable business men.

A New York success

That was certainly a most remarkable demonstration for New York last Sunday afternoon when 97,000 people filed in to the Museum of Natural History within a space of less than four hours, attracted mainly by the exhibition of the New York Horticultural Society. The fact that the show was free does not seriously detract from the impressiveness of the great turnout which was largely composed of the most refined people of the city, for there was no music or sensational advertising or other special effort to draw a crowd. It showed plainly that there exists a widespread interest in flowers and a readiness to support floral exhibitions even in this gay metropolis surfeited day and night with diversions and amusement of every conceivable kind. No better evidence is needed to assure the friends of the New York Horticultural Society that a big horticultural building, rightly located in New York City, would be an investment second to none in its financial stability. Naturally, it should be the finest structure of its kind in this country, if not in the world. We hope it will not be longer deferred.

THE EXHIBITIONS

THE BOSTON SHOW.

The Massachusetts Horticultural Society put up a very creditable exhibition, opening Oct. 31st and closing Nov. 2, and well worthy by reason of extent and quality, of a big public patronage, but for some unexplainable reason the attendance was quite disappointing, gate receipts showing a very decided falling off from last year's record. There was fine music each afternoon and evening. Sunday afternoon saw a fine crowd but the other days were bad. School children were admitted free on Saturday forenoon.

The park department of the City of Boston contributed a gigantic group of decorative plants that towered 25 feet and produced a fine effect. W. W. Edgar's 300 sq. ft. group of foliage and flowering plants which took 1st prize was also good as was one of foliage plants and chrysanthemums by Ed. MacMulkin and one by A. Leuthy. Mrs. J. L. Gardner, gard. W. Thatcher, had a stately 150 sq. ft. group which won 1st. Competition in orchids was very keen. The winning tables, in order of prizes, were by Mrs. Gardner, F. J. Dolansky and Mrs. C. G. Weld, but J. T. Butterworth also had a table full of gems. Dolansky had the best specimen cattleya, Mrs. Gardner the best cypripedium, Wm. Whitman the best kentias and arecas, and E. A. Clark, gard. Alex McKay, and A. F. Estabrook were 1st in the begonia classes.

Coming to the chrysanthemums it must be acknowledged that, in the main, they did not size up—either the trained plants or the cut blooms—with those shown here in former years. The prizes for the 300 ft. groups of chrysanthemums with palms and ferns were awarded to Thos. E. Proctor, gard. J. Marlborough; Walter Hunnewell, gard. T. D. Hatfield, and W. H. Elliott. N. F. Comley won 1st on specimen yellow and J. S. Bailey captured the rest. W. H. Elliott took everything on commercial size plants and his exhibits were excellent as to quality. Thos. E. Proctor won out on 6-stem plants. The Appleton silver medal for best chrysanthemum plant on exhibition was awarded to J. S. Bailey.

In the cutflower section H. E. Converse, gard. D. F. Roy, was 1st in the great class for 25 blooms, 25 varieties; Ernest Townsend 2nd. James Nicol won both the Mrs. Jerome Jones prizes as usual and also beat everything in sight with his vases of Miriam Hankey and Merza. E. A. Clark's Leslie Morrison being equally fine. The other cutflower classes were only sparsely filled, A. D. Jordan, H. E. Converse and E. K. Butler holding winning hands. The vegetable exhibits were excellent.

Among the special awards were the following: Thos. E. Proctor, certificate of merit for Adiantum Farleyense Gloriosa, a remarkable specimen; Mrs. J. L. Gardner, honorable mention for Begonia elatior; Breck-Robinson Co. honorable mention for group of hardy shrubs and trees; Norris F. Comley, silver medal for a very rich group of new hardy yellow chrysanthemum Terrace Hall arranged with oak foliage; Peter Fisher, certificate of merit for new carnation Alice; N. F. Comley, honorable mention for new cucumber Lexington (marked White Spine × Telephone); Penn, the Florist, bronze medal for bud bouquets, baskets, etc., tastefully displayed on purple velvet. Other worthy exhibits were a long table of fruiting shrubs from Arnold Arboretum; Gardenia Veitchii from F. J. Dolansky; white seedling carnation, No. 235, from Peter Fisher; seedling carnation Eleanor from H. A. Stevens; group of Erica regerminans ovata from Knight & Struck Co.; Yellow Prince carnation from S. J. Goddard; display of single chrysanthemums gracefully displayed in vases, the whole a model of neatness and fine labeling from F. P. Putnam; handsome specimen oncidiums from J. T. Butterworth.

THE PHILADELPHIA SHOW.

The exhibition is one of the best ever. The big chrysanthemum plants are fine and the cut flower section is beyond criticism. A grander display of foliage and ornamental plants has never been seen. Louis Burk's orchid display and "Stag-Horn Fern" specimen were leading features. Wm. Graham was all right on the decoration. E. A. Stroud surpassed himself in his Japanese garden display. This was so artistically designed and executed, that it caught the instant attention of all beholders. Its great merit was its simplicity and absence of overcrowding. The acme of all art is not to overdo. All the gardeners have always overcrowded their groups except John Dodds. John always explained that he could have done better if they had only given him a little more glass. That's a joke of course. One thing is sure: the real artist in arrangement is a very rare bird. Good growers are not nearly as rare as the artist in arrangement.

While we are on the subject we must not forget to comment once more on Philip Freud, of Michell's. He has the gift in the highest degree as was evidenced by the trade display he put up for his firm—very artistic and a business bringer.

The cut flower chrysanthemums are magnificent. Best we have ever seen. William Kleinheinz, who was at the New York and Madison shows last week—also Chas. H. Totty—say that they are far ahead of anything seen there. The coveted prize for the best fifty went to the Countess Eulalia, against four of the strongest exhibits ever put up.

The aquarium show proved a fine attraction. This was sent in by Frank Barrett. John Hobson's crotons, eight to fourteen feet high, were a great feature in the main hall. Dreer had the front of the stage with foliage plants; a choice well-grown collection, also splendid groups of Phoenix and Cocos in the foyer besides a great decoration of ferns and foliage plants.

An unique orchid exhibit was by W. Kleinheinz—a half oval pyramid twenty feet high and some twenty feet diameter at the base—one of the great features of the show, and while it got a first prize and a silver medal that was but the least the judges could do. Wm. Robertson as usual came well to the front in both foliage and flowering and groups and was showered with blue ribbons. Alphonse Pericat put up a good display of orchids.

A good vase of Jonkheer Mock rose was shown by Charles H. Totty, also a fine collection of hardy chrysanthemums. Cottage Gardens Co. sent in a great exhibit of their new white carnation Matchless. An unnamed white from Mr. Schultz, Charlotte, N. C., was exhibited by the Leo Niessen Co.

The Japanese garden by Edward A. Stroud exceeded all expectations and took all beholders by storm. It was a fine feature—original, effective and interesting and behind it, all in hidden and subdued form, fine business bringing potentiality—all the stronger because hidden.

Meehan's Nurseries had a pergola on the low stage of the lower hall covered with wild smilax on top and surrounded by a good collection of specimen evergreens and hardy chrysanthemums. Thomas Long, of course, carried all before him with his group of specimen rare ferns, each of them about as big as a haystack and all perfect.

Harry F. Betz, a new exhibitor, made a fine wall group, flanked at each side by pillars and open entrance well decorated, made up of foliage plants mostly, in the entrance hall. A fine display of hardy chrysanthemums were put up by Michell's Andalusia Nurseries. H. Waterer's showing of quality bulbs was very fine and of such size and perfection that they spoke for themselves. The arrangement was in charge of Anthony Waterer and A. Tulloch. John Nesbit deserves special mention for three fine vases of snapdragon. You don't see such flowers at this early season except from master hands. Of course they can mostly all do it in the spring.

We cannot give the prize list in detail, but there were many other exhibitors equally worthy of chronicle did space allow. Among them were: Joseph Hurley, Samuel Batchelor, John H. Dodds, David Aiken, Axel Lindroth, Wm. Comfort, Wm. Fowler, Walter Scott, etc., etc.

THE NEW YORK SHOW.

The Horticultural Society of New York has good reason to feel elated over the success of its exhibition held Oct. 31 to Nov. 4 at the American Museum of Natural History. It was an exceptionally good display in many respects and the public interest was astonishing, culminating on Sunday afternoon when 97,000 people are said to have passed through the doors between one and five o'clock. The show was free to everybody and it required a large force of attendants to keep the throng moving along so that the line of waiting thousands that extended part of the time away out

across the street might be accommodated.

A new record was set with specimen bush plants. The struggle for supremacy was again between A. Lewisohn of Ardsley, represented by John Canning, superintendent, and F. Untermyer, represented by W. H. Waite and Mr. Canning was winner. His three specimens, Lady Lydia, white, R. F. Felton, yellow and Wells' Late Pink were the sensation of the show and it is not probable that their like will ever be seen again. The last named was the winner of the gold medal sweepstakes. These plants were each from 13 to 14 ft. across, 6 to 7 ft. high and each carrying 1600 to 1800 flowers of fine size and uniformity. The groups of decorative plants were superior to any we have seen anywhere this season in the beauty of the plants and the taste shown in arrangement. The orchids were simply superb and really a show in themselves. The gem of the lot was shown by Julius Roehrs Co., under a glass case—a beautiful plant of Laelio-Cattleya Oriole. The sweepstakes winner in the orchid classes was Mrs. H. Graves, gard, Edwin Thomas. Her group of yellow forms of Cypripedium insigne was lovely. Some idea of the many attractive exhibits not provided for in the regular schedule may be gleaned from the following list of special awards:

Special Prizes.

Julius Roehrs Co., grand collection of stove and greenhouse plants, not for competition, silver medal; Robert Scott & Son, new rose Killarney Brilliant, silver medal; Chas. H. Totty, vase of Lillian Doty chrysanthemum; Max Schling, chrysanthemum basket with autumn leaves, diploma; Clement Moore, gard J. P. Mossman, group of Cattleya hybrids, silver medal; J. A. Manda, group of Cattleya labiata.

S. Untermyer, trained specimen single chrysanthemum Sylvia Slade; vases long-stemmed chrysanthemums.

J. H. Troy, orange trees, silver medal.

W. A. Manda, Polypodium Mandalanum, silver medal; Anthericum Mandalanum, bronze medal.

Miss M. T. Cockcroft, Black Hamburgh grapes.

Robert D. Foote, Barberosa grapes.

John Lewis Childs, Gladiolus Mrs. Francis King, special mention.

Steinhardt & Kelly, display of fruit from Washington and Oregon, silver medal.

Adolph Lewisohn, Impatiens, brilliant crimson.

A. N. Pierson, Inc., single and large-flowered chrysanthemums varieties of exceptional merit, silver medal.

H. Darlington (P. W. Popp, gardener), display of dahlias.

Chas. Hathaway (Max Schneider, gardener), Chrysanthemum Glory of Seven Oaks.

Mrs. W. M. Pullan, pears, special mention.

John J. Riker, Mrs. Chas. Russell rose.

Wm. Shillaber, single hardy seedling chrysanthemums.

S. J. Reuter & Son, new crimson rose, certificate of merit.

Alonzo J. Bryan, for new Yellow King Humbert canna, certificate of merit.

Regular Prizes.

Chrysanthemum Plants—Open classes as above noted.

Chrysanthemum Flowers for Commercial Growers.

Charles H. Totty, six 1sts, including silver medal; two 2nds; Scott Bros., two 1sts; Chas. H. Rice, one 1st.

For Non-commercial Growers.

Mrs. W. D. Guthrie, gard. Wm. T. Ross, one 1st; J. T. Pratt, gard. J. W. Everitt, two 1sts, one 2nd; Mrs. S. Newbold, gard. David Gordon, two 1sts, one 2nd; Mrs. F. A. Constable, gard. Jos. Stuart, one 1st, one 2nd; Miss M. T. Cockcroft, gard. Adam Paterson, one 1st, three 2nds; Mrs. W. E. S. Griswold, gard. A. J. Loveless, one 1st; H. F. Osborn, gard. Wm. Ritchie, one 1st, one 2nd; H. Darlington, two 1sts; Chas. Mallory, gard. W. J. Sealey, one 1st; Miss C. A. Bliss, gard. John T. Burns, one 1st; Mrs. D. Willis James, Thorburn cup; Miss B. Potter, gard. Geo. Wittlinger, T. W. Head, Fred'k Sturgis, gard. Thos. Bell, and A. Lewisohn were winners of 2nds in this section.

Roses.

L. A. Noe, F. R. Pierson Co. and C. H. Totty were leaders in commercial classes, Mr. Totty's light pink sport from Mrs. Geo. Shawyer winning the silver medal for best new variety not in commerce.

Winners in non-commercial classes were: G. G. Mason, gard. D. S. Miller; J. J. Riker, gard. W. R. Fowkes; Mrs. F. A. Constable, S. Untermyer, Miss C. A. Bliss.

Carnations.

Commercial classes—Cottage Gardens Co. won everything in sight, including new variety and sweepstakes. Non-commercial classes—G. G. Mason, Miss C. A. Bliss and J. J. Riker.

Foliage and Decorative Plants.

Group of stove and greenhouse plants: S. Untermyer, 1st; W. B. Thompson, 2nd; Mrs. F. A. Constable, special, 3rd. Bay Trees: Julius Roehrs Co. Conifers: Julius Roehrs Co. Begonia Lorraine: Sidney M. and Austin Colgate, gard. Wm. Reid. Begonia, any other variety: W. B. Thompson, gard. R. M. Johnston. Specimen Palm: Mrs. H. I. Pratt, gard. A. J. Manda. Specimen Davallia: Mrs. J. Hood Wright, gard. Chas. Webber; Mrs. H. I. Pratt, 2nd. Nephrolepis exaltata Bostoniensis, F. R. Pierson Co., 1st; Mrs. H. I. Pratt, 2nd. Display of Nephrolepis exaltata and its varieties: F. R. Pierson Co. Trained specimen English Ivy: Adolph Lewisohn. New Fern: Nephrolepis New York, Geo. Glatras, silver medal.

Orchids—Plants—For Commercial Growers.

Collection: Julius Roehrs Co., 1st; Lager & Hurrell, 2nd. Novelty not before exhibited before this society: Julius Roehrs Co., silver medal; 6 varieties, Lager & Hurrell; 6 Cypripediums, Julius Roehrs Co., 1st; Lager & Hurrell, 2nd. Cattleya labiata: J. A. Manda, 1st; Lager & Hurrell, 2nd; 3 varieties, J. A. Manda 1st, Lager & Hurrell 2nd.

For Non-commercial Growers.

Collection, Clement Moore, gard. J. P. Mossman, 1st; S. Untermyer, 2nd. Cattleya: Clement Moore. Oncidium: Mrs. F. A. Constable. Cypripedium: Mrs. Henry Graves (Edwin Thomas gardener). Dendrobium: S. Untermyer.

NEW WHITE CARNATION MATCHLESS.



Cottage Gardens Co., Inc., Queens, N. Y.
Photo taken Oct. 17, 1913.

Open to All.

Clement Moore prize for most beautiful Cypripedium: Mrs. Henry Graves. Clement Moore prize for most beautiful Cattleya: J. A. Manda. Display of yellow forms of Cypripedium insigne: Mrs. Henry Graves, 1st; Lager & Hurrell, 2nd. Display of Laelio-cattleyas, Brasso-cattleyas, Brasso-laelias, or hybrid Cattleyas: Clement Moore.

Orchids—Cut Flowers—For Commercial Growers.

Collection arranged for effect: J. A. Manda. Collection of Cypripediums: Lager & Hurrell.

For Non-Commercial Growers.

Collection arranged for effect: Mrs. H. I. Pratt, 1st; Clement Moore, 2nd.

THE LENOX, MASS., SHOW.

As usual, the Lenox Horticultural Society's exhibition, which was held on October 23 and 24, was a thing of beauty and the attendance of visitors showed conclusively that the public was duly appreciative. Fred Heeremans again won first on plant group, a grand lot, well grown and well arranged. A. H. Wingett was once more invincible on ferns and palms. A. J. Loveless won, among other things, the Giraud Foster cup for orchids, the Totty prize for Ursula Griswold and the Wells-Pockett silver medal for Clara Banghart. S. Carlquist won the medal for most meritorious exhibit, with Begonia elatior. Ed. Jenkins captured the Breck cup with a superb arrangement of fine vegetables, also the Wells-Pockett gold medal for chrysanthemum Clara Banghart and the Elmer D. Smith prize for Elberon. Heeremans got the Dreer cup for greatest number of first prizes and the Fottler, Fiske, Rawson medal.

In the regular prize list, which was a long one, all the gardeners on the many well-known estates of this section were well represented. Chrysanthemum cut blooms were magnificent in every respect and roses and carnations were of high quality throughout.

DREER'S KENTIAS

Our stock of Kentias this seasan is even greater than in former seasons and of the same quality and good value that you are accustomed to receive from us

Kentia Belmoreana

				Doz.	100	1000
2¼-inch pots,	4 leaves,	8 to 10 inches high		$1.50	$10.00	$90.00
3 "	5 "	12 "		2.00	15.00	140.00
4 "	5 "	15 "		4.50	35.00	
				Each		
5 inch pots,	6 to 7 leaves,	18 to 20 inches high		$0.75		
6 "	6 "	24 "		1.00		
6 "	6 to 7 "	28 to 30 "		1.50		
7-inch tubs,	6 to 7 "	36 to 38 "		3.00		

Kentia Forsteriana—Single Plants

				Doz.	100	1000
2¼-inch pots,	4 leaves,	8 to 12 inches high		$1.50	$10.00	$90.00
3 "	4 to 5 "	12 to 15 "		2.00	15.00	140.00
4 "	5 to 6 "	15 to 18 "		4.50	35.00	
				Each		
5-inch pots,	5 to 6 leaves,	24 inches high		$0.75		
6 "	6 "	28 to 30 "		1.00		
6 "	6 "	34 to 36 "		1.50		
7 "	6 to 7 "	40 "		2.50		
7-inch tubs,	6 to 7 "	40 to 42 "		3.00		
8 "	6 to 7 "	45 to 48 "		4.00		
8 "	6 to 7 "	48 "		5.00		
10 "	6 to 7 "	4½ to 5 ft. high		6.00		
11 "	6 to 7 "	5 to 5½ "		8.00		
10 "	6 to 7 "	5½ to 6 "		10.00		
12 "	6 to 7 "	6½ to 7 "		15.00		
14 "	6 to 7 "	7 "		20.00		

Kentia Forsteriana—Made-up Plants

3-inch pots, 3 plants in a pot, 15 inches high, $2.00 per doz., $15.00 per 100.

					Each
7-inch tubs,	3 plants in a tub,	36 inches high			$2.50
7 "	3 " "	38 "			3.00
8 "	3 " "	40 to 42 "			4.00
8 "	3 " "	42 to 45 "			5.00
8 "	3 " "	4 to 4½ feet high			6.00
9 "	3 " "	4½ to 5 "			8.00
10 "	3 " "	5 to 5½ "			10.00
12 "	3 " "	5½ to 6 "			15.00
13 "	4 " "	6½ to 7 "		heavy	20.00
15 "	4 " "	7 "		"	25.00



Made-up Kentia

For a complete list of other Palms as well as other seasonable stock, see our CURRENT WHOLESALE LIST.

HENRY A. DREER, Inc., 714 CHESTNUT STREET PHILADELPHIA, PA.

The above prices are intended for the trade only.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST W. B. WHITTIER & CO., So. Framingham, Mass.

THE
National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window Boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1914 CATALOGUE and place your order with us for your plants, which will have our best attention. Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

GLORIOSA

Superba Grandiflora and Rothschildianum

The only place to buy them in America.

CAMELLIAS

A splendid collection of the choicest varieties. Best budded plants ever offered.

ORCHIDS

Immense quantities and variety, both species and hybrids.

STOVE PLANTS

Come to Rutherford and see our extensive collection and you will not think of going elsewhere

Our **NURSERY DEPARTMENT** has recently been increased by many acres and we can fill all requirements.

JULIUS ROEHRS CO., RUTHERFORD, N. J.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The ninth Annual Fall Show of this society was held at Pembroke Hall, Glen Cove, N. Y., on Oct. 28-29, and proved a great success. There were 55 classes and most of them were keenly contested. Chrysanthemums and foliage plants filled the main floor while the second floor was well taken up with vegetables, roses and carnations, etc. The dinner table decorations brought out the largest entry of any class in the show—ten in all. J. Adler, Glen Cove, was the winner for the second year in succession. The exhibit of vegetables staged by H. Gaut won the Stumpp & Walter cup, also the Gardeners' Chronicle prize for the most meritorious exhibit. The judges were W. H. Waite, Yonkers; Jas. Stuart, Mamaroneck; Jas. Bell, New York, and J. McNicol, Cedarhurst.

List of First Awards.

Percy Chubb, gard A. Mackenzie, won the following 1st prizes: C. A. Coffin prize for group of chrysanthemum plants; Weeber & Don cup for six plants; Society's cup for 18 blooms; Mrs. D. Burns' prize for 10 blooms; Titus & Bowen prize for 12 blooms; Vaughan's Seed Store prize for 12 singles; Burnett Bros.' prize for vegetables; Hitchings & Co. prize for group of foliage and flowering plants. Mrs. J. H. Ottley, gard. J. MacDonald, won the Lord & Burnham prize for standard chrysanthemum; H. E. Smith prize for 8 chrysanthemums, one variety; Mrs. Ottley's own prize for 12 blooms arranged for effect was awarded to Mr. MacDonald. E. W. Kimball, gard. J. McCarthy, won the Lord & Burnham prize for standard single; E. M. Underhill prize for bush single and Cottage Gardens prize for pink carnations. W. R. Harkness, gard. A. Fournier, won the M. Stapleton prize for bush double. J. T. Pratt, gard. G. Ferguson, won the H. W. Buckbell prize for 6 blooms, 6 varieties. C. H. Totty prize for Clara Banghart and for 6 singles. H. F. Matz prize for violets. Mrs. W. D. Guthrie, gard. W. Ross, took the F. B. Edmonds prize for largest bloom; R. Mesereole prize for American Beauty roses; A. T. Boddington prize for roses. M. F. Schiff, two Cottage Gardens prizes for carnations. J. R. Delamare, gard. R. Marshall, the Julius Roehrs prize for orchids.

The list of second and third prize winners is necessarily omitted for lack of room.

ELBERON SHOW.

The Elberon, N. J., Horticultural Society's fourth annual exhibition, held last week at the Casino was a really notable event. Chrysanthemums, roses, carnations, violets, palms, fruit, etc., were all shown in lavish array and the attendance of visitors was good. Among the big prize winners were Anthony Bauer of the Goldman estate, D. C. Kelley of the Greenhut estate and Geo. Masson of Frelinghuysen estate. Chas. H. Totty's cup went to Thos. Hambilton of the Weinpfheimer estate and the Hitchings Co. cup was awarded to Joseph Mills of the George Gould estate. George Masson 1st and A. Bauer 2nd was the record on dinner table decoration in one class and Chas. Hurn and Geo. Masson in the other, respectively. The Michell gold medal for largest number of points was awarded to A. Bauer. The Wells medals were won by B. Meyer, D. C. Kelley and A. Bauer.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

BALTIMORE NURSERIES

California Privet

Any quantity, size and age. No better grown. Shade and ornamental Trees, Shrubs and Vines. Full line of Fruit Trees and Plants.

Get our prices and catalog

Franklin Davis Nursery Co.
BALTIMORE, MD.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

The Florists' and Gardeners' Club will hold a flower show at Holyoke, Mass., on November 13. The hall will be elaborately decorated and exhibits are promised by many large commercial growers, besides the Agricultural College at Amherst and a number of private estates.

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

Lilium Candidum, 18-20 ctms., . . $3.75 per 100, $35.00 per 1000 **Lilium Candidum,** 20-22 ctms., . . $4.25 per 100, $40.00 per 1000

Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

Gladstone. Enormous spikes of pure white flowers . . . . . $6.00 per 100, $55.00 per 1000

Queen of Holland. One of the finest; grand florist's variety, white . . . $8.00 per 100, $75.00 per 1000

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

PRINCESS OF WALES VIOLETS

BEST PLANTS IN THE COUNTRY

$6.00 per 100 $50.00 per 1000

We are now shipping them and they are very fine

WILLIAM SIM, - Cliftondale, Mass.

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS

FRESH COLLECTED STOCK

Just Arrived

Catt. Gigas, August flowering type. Catt. Gigas Sanderiana Mammoth flowering type of April. Catt. Labiata Special collection in flowering season for dark flowers. Dormant leads, well leaved plants. Send for prices. Potted plants in sheath also ready. Orders taken now for early spring growing stock.

FREEMAN ORCHID COMPANY

G. L. FREEMAN, Mgr.

FALL RIVER, MASS.

Mention HORTICULTURE when writing.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL, Summit N. J.,

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.

LOCK BOX 5

In writing to Advertisers kindly mention Horticulture

THE MADISON (N. J.) SHOW.

This exhibition, always a good one, was this year fully up to its reputation. It took place on October 28 and 29. Among the things which attracted special attention from visitors was C. H. Totty's display of singles and semi-doubles which was recognized with a well-deserved gold medal. The vegetable display and orchid group by Wm. Duckham were also worthy of note and the orchids won a special silver medal.

The Prizes—Specials.

Robert Tyson won the Stumpp & Walter prize for 6 blooms; C. H. Totty, the E. D. Smith prize for "Madison" rose; P. D. Whitney, the Vaughan prize for Wm. Turner; L. A. Noe, the Pierson prize for Milady rose; Wm. Duckham, the Badgley, Riedel & Meyer prizes for roses and carnations; L. M. Noe estate, the Totty prize for Shawyer rose.

Chrysanthemums.

Thirty six flowers in 6 varieties: 1, Mrs. D. Willis James (supt. W. Duckham); 2, C. H. Totty.

Eighteen flowers in 6 varieties: 1, Otto H. Kahn (gard. Jas. Fraser), Morristown, N. J.; 2, G. E. Kissell (gard. Percy Witney), Morristown, N. J.

Twelve varieties in one vase: 1, Dr. D. H. McAlpin (gard. John Downing), Morris Plains, N. J.; 2, O. H. Kahn.

There were many other classes for cut blooms in which the winners of prizes were Dr. D. H. McAlpin, Mrs. H. McK. Twombly, Mrs. D. Willis James, C. W. Harkness (gard. E. Wilde), Otto Kahn, Mrs. Paul Moore, G. E. Kissel, Mrs. John Crosby Brown (gard. Peter Duff), C. H. Totty, Paul Moore (gard. Edward Davis), Glimpsewood Manor (gard. H. B. Vizer), and J. W. Johnson (gard. A. Fullerton). Fine specimen plants were contributed by Mrs. J. Crosby Brown, Dr. McAlpin, Mrs. H. McK. Twombly and Mrs. D. Willis James. In the group for effect Dr. McAlpin was 1st; Glimpsewood Manor, 2nd. C. H. Totty was winner in all the commercial classes.

There were 20 classes for roses. C. H. Totty was winner in the class for any undisseminated variety, with a lovely shell-pink sport from Mrs. Shawyer. Other winners in the rose section were L. A. Noe, L. M. Noe Estate, L. B. Coddington, C. A. Wyke (gard. W. O. Michael), J. J. Riker, Wagner Greenhouses, Harry O. May and C. W. Harkness.

In the carnation classes the winners were Dr. D. H. McAlpin, C. W. Harkness, H. O. May, Otto H. Kahn, Mrs. D. Willis James, Chas. Weber, G. F. Neipp. In violets, H. Coghill (gard. P. Penipede), C. W. Harkness, Mrs. J. Crosby Brown.

Vegetables.

Twelve distinct kinds of vegetables, tastefully arranged: 1 (Madison sp. prize $75), Mrs. D. Willis James; 2, Giraud Foster (supt. Edward Jenkins), Lenox, Mass.

Collections of 6 kinds of vegetables: 1, O. H. Kahn; 2, The Wayside (gard. David Francis), Convent, N. J.

There were many other vegetable classes, all well contested.

Certificates.

Certificate of merit to Carnation Gorgeous from Peter Fisher, Ellis, Mass.; to mangel beet from Amos Cheesbro, Madison, N. J.; to Ponderosa lemons from L. A. Noe. A special prize was given to Mrs. F. W. Devel, Maplewood, for a scarlet dahlia; cultural certificates to L. M. Noe estate for lemons, and Samuel Randolphe for peanuts.

THE NEW BEDFORD, MASS., SHOW.

On Monday and Tuesday, Nov. 3 and 4, the New Bedford Horticultural Society put up a very creditable exhibition in the library building. The prizes were well competed for and worthily awarded. James Nicol, the invincible chrysanthemum grower of Quincy, took the silver medal for 12 best blooms, with Wm. Turner. A. E. Griffin, gard. for Galen L. Stone, got the bronze medal in same class. Mr. Griffin won the majority of the chrysanthemum prizes. On specimen plants, D. F. Roy, gard. for Col. H. E. Converse, was high-liner, and on hardy chrysanthemums D. Shea, gard. for Mrs. H. Hathaway, was first. The D. F. Roy cup for 12 blooms was won by Mr. Griffin. The T. J. Grey cup for 18 blooms and the Farquhar cup for 18 long stemmed blooms were captured by Mr. Roy.

An award of merit was given J. P. Rooney, gard. for Mrs. F. Grinnell, for chrysanthemum plant, a bronze medal to Peckham Floral Co. for group and the same to A. E. Griffin for begonias. Also a special award to James Garthley, superintendent of H. H. Rogers estate.

FIELD DAY OF WABAN ROSE CONSERVATORIES' EMPLOYEES.



Waban Rose Conservatories, Natick, Mass., gave a field day on Saturday, September 6, to its employees and their families. The afternoon was spent in a ball game between the married men and single, various running and jumping games for the girls and ladies and the boys and men, for which prizes were given. Refreshments were served. This picture was taken on the lawn of Alexander Montgomery, the superintendent, who is seen in the middle of the picture with Mrs. Montgomery. The day was perfect and a very enjoyable time was had.

A draft for a substantial sum has been sent from Boston, Mass., as a gift from the young Scotch gardeners of the neighborhood towards the erection of a new horticultural hall in Edinburgh, Scotland.

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

CYCLAMEN SEED

MICHELL'S GIANT STRAIN

ENGLISH GROWN SEED

	100	1000
Pure White	$1.00	$8.50
Soft Pink	1.00	8.50
White, with red base	1.00	8.50
Brilliant Crimson	1.00	8.50
Salmon Pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN SEED

	100	1000
White	$0.75	$6.00
Pink	.75	6.00
Red	.75	6.00
White, with red base	.75	6.00
Mixed Colors	.60	5.00

Also all other seasonable seeds.

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.

518 Market Street, PHILADELPHIA, PA.

Mention HORTICULTURE when writing

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

JOHN WILK

155 W. 33rd St., NEW YORK

Full Line of Bulbs for Fall Planting

Quality my first consideration

Plants, Bulbs & Seeds

It is our aim to please you at all times. Try us

S. S. SKIDELSKY & CO.

1218 Betz Building, Philadelphia, Pa.

Catalog for the asking

We Specialize in
DANISH
Cabbage, Cauliflower and Root Seed
Grown by
Hjalmar Hartmann & Co., Copenhagen
NEW ZEALAND
Garden Peas
Grown by
F. Cooper Ltd., Wellington, N. Z
SWEDISH
Seed Grain
Grown by
The General Swedish Seed Co., Svaloef

These three concerns are the foremost in their line in their respective countries.

Ask for Price Lists and Information
LOECHNER & CO.
11 Warren Street, New York

We have all the leading
WINTER SWEET PEAS
at $2.00 per lb. Try a few of our
NEW WINTER ORCHID
SWEET PEA, at $4.00 per ½ oz.
Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.
Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.
ANT. C. ZVOLANEK
LOMPOC, CALIFORNIA

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No. Market St., BOSTON, MASS.

Place your order now for Ayres' Winter Flowering
SWEET PEA SEED
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.
Mention HORTICULTURE when writing.

REMOVAL NOTICE
We are Now Permanently Located
At Our New Address
98 Chambers Street, N. Y.
Between Broadway and Church Street
Telephone 6138 Barclay
BURNETT BROS., - Seedsmen

Kelway & Son
Wholesale Growers to the Trade of
Choice Stocks of
GARDEN, FARM
AND
FLOWER SEEDS
Please Write Now for Our
CONTRACT PRICES
Langport, Eng.

FOTTLER
FISKE
RAWSON CO.,
LILIES **BOSTON**
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

MUSHROOMS
Barter's Peerless Brand
$6.50 100 lbs.
Our treatise how to succeed included
Wm. Elliott & Sons
42 Vesey St., New York
Mention HORTICULTURE when writing

NARCISSUS
PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS
1000 per case, $10.00
WEEBER & DON
Seed Merchants, 114 Chambers St., New York
Mention HORTICULTURE when writing

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
ONION SETS
226-230 W. KINZIE STREET, CHICAGO
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1874-76 Milwaukee Avenue, CHICAGO, ILL.

PAEONY ROOTS
Assorted in five colors, $10.00 per 100.
BLEEDING HEART ROOTS
$6.00 per 100.
EARLY WHITE ROMAN HYACINTHS
(12 to 15), $3.00 per 100, $28.00 per 1000.
FREESIA
Refracta Alba, ⅜ to ½-in., 60c. per 100, $4.00 per 1000.
LILIUM HARRISII
5 to 7, $3.50 per 100, $30.00 per 1000.
Spiraea, Lily of the Valley Clumps and Pips
Will arrive soon—prices on application.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 16) NEW YORK, N. Y.

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Atlanta, Ga.—Lawrence Floral Company.

Boston, Mass.—D. Feldman, 19 West street.

Monmouth, Ill.—Monmouth Floral Company.

Carlisle, Pa.—Thomas Conlon, North Hanover street.

New London, Conn.—G. W. Clark, 223 State street.

Burlington, Vt.—H. M. Totman, Dubois and Gay Block.

STEAMER DEPARTURES

Allan.

Scotian, Montreal-London....Nov. 9
Tunisian, Montreal-Liverpool..Nov. 11
Parisian, Boston-Glasgow....Nov. 14

American.

St. Paul, N. Y.-S'hampton..Nov. 14
St. Louis, N. Y.-S'hampton..Nov. 21

Atlantic Transport.

Minnewaska, N. Y.-London..Nov. 15
Minnetonka, N. Y.-London..Nov. 22

Cunard.

Saxonia, Boston-Liverpool..Nov. 11
Caronia, N. Y.-Liverpool....Nov. 15
Franconia, N. Y.-Mediter'n..Nov. 15
Mauretania, N. Y.-Liverpool..Nov. 19

French Line.

La Savoie, N. Y.-Havre.....Nov. 12
Rochambeau, N. Y.-Havre....Nov. 15

Hamburg-American.

Pretoria, N. Y.-Hamburg....Nov. 15

Holland-America.

Noordam, N. Y.-Rotterdam..Nov. 11
Rijndam, N. Y.-Rotterdam..Nov. 18

Leyland.

Canadian, Boston-Liverpool..Nov. 22

North German Lloyd.

K's'r W. der G., N.Y.-Bremen..Nov. 11
Pr. Fried. Wil., N.Y.-Br'm'n..Nov. 15
Pr. Irene, N. Y.-Mediter'n...Nov. 15

Red Star.

Lapland, N. Y.-Antwerp....Nov. 12
Vaderland, N. Y.-Antwerp...Nov. 19

White Star.

Celtic, N. Y.-Liverpool.....Nov. 13
Teutonic, Montreal-Liverpool..Nov. 15
Arabic, Boston-Liverpool.....Nov. 18
Cedric, N. Y.-Liverpool.....Nov. 20
Cretic, Boston-Mediter'n.....Nov. 22

Stamford, Conn.—Quality Flower Store, Atlantic street.

Holyoke, Mass.—Miss Lucy A. Hickey, 277 Maple street.

Mendota, Ill.—B. Katzwinkel, Max John store, North Main street.

Kansas City, Mo.—Hardy & Bernard, 911 West Seventh street.

Pittsburgh, Pa.—David B. Hill, Bash Building, Fifth avenue and Market street.

Sidney, N. Y.—Harry Thorndycraft has bought of Mrs. William Wright her greenhouses and they have been moved to his place on River street. Mrs. Wright, who has been a florist several years, will continue to sell cut flowers.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
—Bloomingdale's—
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN NEW YORK
3 & 5 Greene Ave. Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344 - 346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

New Concord, Ohio—H. H. Gier has purchased the greenhouses of J. C. McCutcheon.

New Bedford, Mass.—Wm. P. Pierce, for 37 years in business on Union street, has moved to 610 Pleasant street.

Xenia, Ohio—J. J. Lampert has retired from the wholesale flower business and turned over his greenhouses to his two sons, George and Harry. In the future, Mr. Lampert will devote all his time to his retail store on North King street.

Now is the time to use the Silkaline for tying up the plants. On the market for many years this Meyer specialty holds its own against all comers, however cheap they may be in first cost. Silkaline is genuine, full length, and fast color.

BE PREPARED
FOR THE
HOLIDAY RUSH
Lay in your stock of Ready-made Paper Pot Covers, Mats, Waterproof Crepe Paper, and Two-toned Scalloped-edge Crepe Paper.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

WASHINGTON NOTES.

Frank P. Gaul, formerly of Philadelphia, has assumed his duties as manager of the local store of the S. S. Pennock-Meehan Company. For the past fourteen years Mr. Gaul has been connected with H. H. Battles, for whom he managed the Century Flower Shop for a number of years. Mr. Gaul is receiving the congratulations of the local trade, he being quite well-known to some of the florists here.

Considerable complaint is to be heard at the dullness of business in the retail end. It is said that the constant agitation in Congress is responsiible for this condition to quite an extent. Certainly the change of administration, meddling with the tariff, the income tax and the proposed new currency legislation, is not conducive to good times or business. Flowers of all varieties, with the possible exception of orchids, are very plentiful. The market is literally overcrowded with chrysanthemums. Roses are coming into the city in quantities larger than necessary to fill the demand. Carnations have improved in quality, although not in price.

Washington dealers refuse to further accept the street men as the legitimate outlet for the surplus stock of the growers and are considering various plans to eliminate at least a portion of the competition produced by these men. At a recent meeting of the store men, at which quite a number of prominent retailers were present or represented, this matter was carefully gone over and another meeting is to be held during the present week at which the plans will be perfected. A notice last week appeared in the daily papers, signed by the tax man, informing the various merchants, including the florists, that their licenses to do business had expired. This means, in the case of the florists, that they owe the government $15. In addition to this they must pay a personal tax upon their store at the rate of something like $15 per $1,000. The street men have perhaps a pedler's license but that is about all.

The store of Gude Bros., this week, presents a very beautiful appearance, that firm holding its annual chrysanthemum show. The three sections of the store, covering a space 30 feet by 180 feet, are a blaze of color. The front section has been turned into a garden with a fountain in the center and along the walls are huge white Grecian pillars on which have been placed palms and ferns. Directly behind the fountain is a Grecian arch also having palms and ferns and draped with smilax. Along the walls and ceiling smilax and oak leaves have been placed and in vases and wall pockets are hundreds of choice Appleton chrysanthemums. In that section usually devoted to make-up work have been placed all the varieties of chrysanthemums now being offered in the local market. As in previous years, this spacious store is thronged from morn until night by a crowd of flower lovers. In connection with the show, Gude Bros. have placed on exhibition the two silver loving cups and the six blue ribbons won by them at the Maryland State Fair last month.

CHICAGO NOTES.

E. Eisner, formerly in business on S. Halstead street, has opened a new store at 5448 S. Halstead street.

A Miller, of A. Henderson & Co., who has just returned from a two months' trip through the east, reported good business.

The Chicago Florists' Club held their ladies' night entertainment in the Gold Room of the La Salle Hotel, Thursday, Nov. 6. Reception, 7 to 8; dancing, 8 to 1. Everyone in the trade had an invitation.

The heavy shipping orders, especially to the south and southwest, last week, kept the local market well cleaned up. This week the supply of roses and chrysanthemums is considerably heavier but the market cleans up well.

Fire in the store of J. F. Kidwell & Bro., 3806 Wentworth avenue, at midnight, Sunday, Nov. 2, destroyed the store and broke some glass and injured the stock in some of the greenhouses adjoining the store. The store was covered by insurance but it will be some time before it can be fitted up for use. The cause of the fire is unknown.

Miss Semler, president of The Edleffsen-Leidiger Floral Co., and Mrs. Ida Baumgarten, of the Baumgarten Floral Co., both of Milwaukee, were Chicago visitors this week, on their way home from an extended business and pleasure trip through the east. They report a very pleasant and profitable trip. Other visitors: John Bauscher, Freeport, Ill.; J. J. Karins, representing H. A. Dreer, Philadelphia; Edw. Amerpohl, of Janesville Floral Co., Janesville, Wis.

PHILADELPHIA NOTES.

Ed. Dornheim is now with Berger Bros. in the sales department. This gentleman is favorably known to the cut flower trade and we wish him well in his new sphere.

M. Rice & Co. report that they have done the biggest October business in their history. All records broken. The only complaint now is too much overtime strain on the staff.

Abram L. and Mrs. Pennock left for Florida on October 30th. Samuel S. accompanied them as far as Washington. Both are well and hearty. Their millions of friends follow their goings and comings with loving interest and hope they'll live a thousand years yet.

The Lake Geneva Gardeners' and Foremen's Association will hold a chrysanthemum exhibition at Horticultural Hall, Lake Geneva, Wis., on November 11 and 12.

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florist Telegraph Delivery Association

LISTEN HERE

Thanksgiving Goods are now ripe. Get busy and pick them early. Elegant little flower receptacles of Delft Imperial Ware, Brownies, etc., Ferneries, Baskets and Vases. All New Goods. Sterling Novelties now offered for the First time. Tempting prices on our Special Gold Letters, Script and Block and Mother of Pearl.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



Wholesale and Retail Florists

You both will profit by using McCray Refrigerators. Don't cut down prices because of spoilage. Stop the spoilage. Our patented refrigeration will keep your stock fresh because of the perfect circulation of cold, dry air.

McCray Refrigerators

Are made not only in stock sizes but are built-to-order to suit your requirements. Write to-day for our Free Catalog No. 73 which will give you ideas to help you add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office, 7-9 West 30th St.

669 Lake St., Kendallville, Ind.

NEW YORK NOTES.

R. Vincent, Jr., and Mrs. Vincent have been visiting New York the past week.

J. Horace McFarland, of Harrisburg, Pa., sailed for a health trip to Europe, on the "Imperator," November 1.

H. A. Barnard, representative of Stuart Low & Co., Enfield, England, sailed from New York for home last Wednesday.

Charles Miesem, twelve years old, son of John Miesem, of Elmhurst, N. Y., is ill with rheumatism of the heart and the physicians hold out no hope for recovery.

Among the visitors in town last week were a party of gardeners from Lenox, Mass., including Thomas Page, Ed. Jenkins, Robert Spiers, A. J. Loveless and A. Carlquist.

C. H. Totty, L. J. Reuter, Wm. Duckham and Wm. Vert started on Monday night, November 3, from New York for Chicago, to attend the Chrysanthemum Society meeting there.

That sound of revelry last Wednesday evening after working hours had given place to innocent recreation in the wholesale flower district was only Phil. Kessler and his cronies celebrating Mr. Kessler's birthday. Phil. was the entertainer and he knows how.

George Golsner of College Point has a suit against the gas company which has been in court for some time. On trial last April the jury disagreed and a second trial last week resulted in another disagreement, the jury standing ten to two in favor of Mr. Golsner.



The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Samples Sent Free

Apply to

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

New York plant auction sales this week were held on Wednesday instead of the regular day, Tuesday, which was a holiday. Since cool weather came the sales are well attended and the demand is brisk, everything that is of acceptable quality bringing good value. Belgium and Holland nursery stock is in lively demand.

OBITUARY.

William F. Holtz.

William F. Holtz, for many years head of the wire shop at Kuehn's and late with Geo. Angermuller, St. Louis in the cutflower department, died on Wednesday, Oct. 29th, after a lingering illness, at the age of 38 years. Mr. Holtz was a widower and leaves two little girls. The funeral took place on Saturday, Nov. 1, with many in the trade in attendance who sent floral designs. He will be greatly missed by his late employer.

INCORPORATED.

Newell, W. Va.—Mick Floral Company, capital stock, $10,000. Incorporators, B. A., Annie E., Letta B., Mary A., and Sadie V. Mick.

Cincinnati, Ohio—J. Wilder Seed Company, capital stock, $10,000. Incorporators, W. C. Renaker, Wm. J. Rahe and W. Schmitt.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

IRISH FIRE FLAME

A novelty in yellow roses, which we are handling in quantity this season

Shorts, good flowers, 100 ..... $4.00
Firsts, 12 inch stems, 100 ..... 6.00
Extras, 15 inch stems, 100 ..... 8.00

Include some of them in with your next order.. You will find good sale for them.

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA
Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — THOSE MADE BY THE

Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 27			CHICAGO October 27			BUFFALO October 27			PITTSBURG October 27		
Am Beauty, Fancy and Special	20.00	to	25.00	25.00	to	35.00	15.00	to	25.00	20.00	to	25.00
" " Extra	15.00	to	20.00	20.00	to	25.00	10.00	to	12.00	15.00	to	18.00
" " No. 1	10.00	to	15.00	15.00	to	20.00	7.00	to	10.00	8.00	to	12.00
" " Lower Grades	4.00	to	8.00	8.00	to	12.00	3.00	to	4.00	3.00	to	5.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	7.00	to	8.00	6.00	to	8.00
" Ordinary	2.00	to	4.00	3.00	to	5.00	2.00	to	5.00	2.00	to	4.00
Richmond, Hillington, Extra	4.00	to	6.00	6.00	to	8.00	7.00	to	8.00	6.00	to	8.00
" " Ordinary	2.00	to	4.00	4.00	to	6.00	2.00	to	5.00	3.00	to	4.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00	to	10.00	6.00	to	10.00	7.00	to	8.00	6.00	to	10.00
" " " Ordinary	.....	to	....	4.00	to	5.00	3.00	to	5.00	3.00	to	4.00
Carnations, Fancy Grade	.....	to	2.50	3.00	to	4.00	.....	to	3.00	.....	to	3.00
" Ordinary	.....	to	1.50	2.00	to	2.50	2.00	to	2.50	1.50	to	2.00
Cattleyas	.....	to	50.00	30.00	to	40.00	40.00	to	50.00	45.00	to	50.00
Lilies, Longiflorum	12.50	to	15.00	10.00	to	12.00	8.00	to	12.00	12.50	to	15.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Chrysanthemums	12.50	to	15.00	12.00	to	25.00	6.00	to	20.00	4.00	to	25.00
Violets	.35	to	.50	.50	to	.75	.50	to	.60	.35	to	.75
Daises	.....	to	.....	1.00	to	1.25	.75	to	1.00	1.00	to	1.50
Gardenias	.....	to	.....	.....	to	25.00	25.00	to	30.00	.....	to	.....
Adiantum	.....	to	1.00	1.00	to	1.25	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumous, Strings (100)	25.00	to	40.00	50.00	to	75.00	40.00	to	60.00	.....	to	50.00
" " & Spren (100 bchs.)	15.00	to	25.00	25.00	to	50.00	25.00	to	50.00	35.00	to	40.00

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

BUY BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

ATLANTA COMMISSION FLORIST CO.
Consignments Solicited
A READY MARKET FOR ANYTHING
ATLANTA GEORGIA

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON

Market conditions here are regarded as fairly satisfactory in most respects. Violets are unusually scarce, due in the main to the soft weather of the past month, which has promoted a soft growth of leaves, but no flowers and on this one specialty the demand really exceeds the supply. Carnations, which for a time were on the short side, are now over-plentiful and seem to lag in the wholesalers' hands. Roses are of high quality all through the list, and already the Thanksgiving Day outlook is being contemplated, for roses are a prime requirement for that festival. In red roses, Cardinal shows up as a worthy leader at the present time. Lily of the valley is excellent as are also cattleyas. Prices on chrysanthemums are inclined downward, there being no active demand for them and the supply being heavy.

BUFFALO

It has been noticed in previous years, that a week or ten days before election, trade has been very quiet. It has been a little better this year. The early chrysanthemums have been plentiful enough and have gradually moved, but not at high prices as the quality has not been up to the standard. This may have been on account of the warm weather we had in September and the early part of October. The keeping quality has been poor and many complaints have been heard regarding this. The later varieties are now coming on—Balfour, Golden Age, White and Yellow Bonnaffon, White Cloud, Touset, etc. Roses are in heavy quantity—too many to command high prices. Carnations are not over plentiful but there are plenty of lily of the valley, orchids, violets, swainsona, lilies and pompon chrysanthemums. The latter has taken well in yellow and white. The receipts are heavy and a few dark days would help to check the supply and put the market in a more satisfactory condition, for which the wholesaler would be grateful.

CHICAGO

The market last week opened with an active demand and trade continued brisk up to the middle of the week. Towards the close of the week, however, the general trend of the market pointed to lower values pretty nearly all along the line. Saturday, which is generally a clean-up day, proved rather disappointing, with the result that quite a lot of stock was carried over, still there is no great surplus of any one thing, with the possible exception of 'mums in the smaller and inferior grades. Really first-class blooms are now too plenty and still command good prices but of the second and third grade stock prices keep dropping very materially. Roses begin to feel the effect of the 'mum season. The stocks offered are not unwieldy but the general demand is less active than formerly. Prices, more particularly in the longer stemmed grades, are inclining towards a lower level. Shorts are still in active demand. Carnations are coming in a little more plentiful though prices are ruling firm. Wholesale houses, however, are now able to fill orders in full except, perhaps, in certain special varieties. There is a better tone to the violet market, more especially in local grown singles; the quality of these is improving daily. New York doubles have also much improved in quality, but much more slowly. Lilies are dragging somewhat and the demand for lily of the valley is rather slack.

PHILADELPHIA

Bonnaffon chrysanthemums and cattleyas were the leading features here last week. These were both in choice form and good crop and easily led the procession. Gardenias are still rather scarce. The tone of the rose market improved a little, but there was no advance in quoted rates. Carnation quality better; also quantity, which latter fact holds prices from the hoped-for upward jump. The demand for violets is improving right along. Some very choice pink snapdragon are now to be seen around. The best white chrysanthemum at present is Razer; the best white, McNiece. On the whole, a fairly satisfactory week.

NEW YORK

Conditions in this market have not changed materially. There have been two or three days when a hopeful activity could be noticed, but, as a whole, it cannot be said that any marked improvement can be recorded over the somewhat depressing situation reported in the past few weeks. Nothing can be said in the way of criticism of the quality or the variety of material offered in the wholesale district. The slowness with which it is moved and the "bargain counter" atmosphere which seems to permeate all the trading deals is the unpalatable feature. Of business stability there is none thus far and we hardly expect to see it until the chrysanthemum avalanche lightens up and the weather takes on a wintry aspect. All special and ordinary stock is in abundance, except violets, which are quite scarce.

Continued on page 647

GARDENIAS

We have a splendid supply of Gardenias to offer, the very choicest quality. Handled in original boxes, as we do, insures perfect flowers, blooms that are a credit to any progressive retailer.

SPECIALS, $3.00 per doz.

A few **EXTRA LARGE SPECIALS**, in limited quantities, at $4.00 per doz.

CATTLEYAS, SPECIAL, doz., $6.00. **EXTRA**, doz., $4.00.
Special prices in large quantities.

VALLEY. Special, $4.00 per 100; Extra, $3.00 per 100

Business Hours From 7.30 A.M. to 6.00 P.M.

Ribbons and Supplies Many new patterns in exclusive ribbons. If you did not receive one of our new catalogues, advise us and we will mail you a copy.

KILLARNEY BRILLIANT, Own Root, $30.00 per 100, $250.00 per 1000
Grafted, 35.00 " " 300.00 " "

P M QUALITY

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

Philadelphia
1608-20 Ludlow Street

New York
117 West 28th Street

Baltimore
Franklin and St. Paul Sts.

Washington
1216 H Street, N. W

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON November 8			ST. LOUIS October 27			PHILA October 27		
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.50	to	16.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	2.00	to	5.00	4.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" Ordinary	1.00	to	4.00	2.00	to	3.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	5.00	to	6.00	4.00	to	8.00
" " Ordinary	1.00	to	4.00	2.00	to	3.00	1.00	to	3.00
Maryland, Ward, Taft, Sunburst, Extra	5.00	to	8.00	6.00	to	8.00	4.00	to	8.00
" " " " Ordinary	1.00	to	4.00	2.00	to	4.00	1.00	to	3.00
Carnations, Fancy Grade	2.00	to	3.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50
Cattleyas	25.00	to	35.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	8.00	to	12.50
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Chrysanthmums	6.00	to	15.00	8.00	to	20.00	3.00	to	20.00
Violets	.60	to	.75	.35	to	.60	.40	to	.75
Daises	.....	to	1.00	.....	to	.....	.50	to	1.50
Gardenias	.....	to	25.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	25.00	to	35.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 609 MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 5893 Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4168 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 1 1913	First Half of Week beginning Nov. 3 1913
Cattleyas	15.00 to 25.00	20.00 to 35.00
Lilies, Longiflorum	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	6.00 to 25.00	6.00 to 25.00
Violets	.40 to .60	.40 to .60
Daises	.50 to 1.00	.50 to 1.00
Snapdragon	.... to	..... to .....
Gardenias	15.00 to 25.00	15.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 15.00
Asparagus Plumosus, strings (per 100)	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1664 1665 Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST., NEW YORK CITY
Special Attention to the Shipping Trade

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 645)

ST. LOUIS

The St. Louis market was quite strong last week; anything seasonable could be had and plenty of it, and from the way the retailers bought they must have had a busy week. Chrysanthemums are much in favor with the buyers. Other seasonable stock is coming in fine, the cooler weather having toned them up, and prices have gone up a little.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 1 1913	First Half of Week beginning Nov. 3 1913
American Beauty, Fancy and Special	12.00 to 25.00	12.00 to 25.00
" " Extra	10.00 to 12.00	10.00 to 12.00
" " No. 1	6.00 to 8.00	6.00 to 8.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 4.00	3.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 4.00	3.00 to 4.00
" " Ordinary	.50 to 2.00	.50 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 6.00	4.00 to 6.00
" " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

CO-OPERATIVE FLOWER MARKET DINNER.

The 10th annual meeting and banquet of the Boston Co-operative Flower Market was held at the Quincy House, Boston, on Saturday evening, Nov. 1, 150 attending. Pres. John McFarland presided, and others at the head table were Donald Carmichael, treasurer; William W. Tailby, secretary; Norris F. Comley, William H. Elliott, Robert Montgomery, Edward Wood, James Wheeler and L. E. Small, board of directors. There were several invited guests and felicitous speeches were made, complimenting the organization on its prosperity and usefulness.

NATIONAL ASSOCIATION OF GARDENERS.

The third annual convention of the National Association of Gardeners, since its reorganization, was held in the American Museum of Natural History, New York City, on Monday afternoon, November 3d. President William H. Waite called the meeting to order at 2.30 o'clock and introduced Frank R. Pierson, the chairman of the executive committee of the Horticultural Society of New York, who welcomed the visiting gardeners to the convention.

The annual reports of the officers showed an unsurpassed growth within the organization during the past year and an excellent financial condition. The election of officers followed. William H. Waite of Yonkers, N. Y., was re-elected president; John W. Everitt of Glen Cove, N. Y., vice-president; M. C. Ebel, Madison, N. J., re-elected secretary; and James Stuart of Mamaroneck, N. Y., re-elected treasurer. The following directors were re-elected to serve for one year; William Kleinheinz, Alexander Mackenzie, Peter Duff, William Duckham and John H. Dodds.

The following resolution on the death of Mr. Julius Roehrs was adopted:

Whereas, Our Heavenly Father has deemed it wise to remove from our midst, our fellow member and brother gardener, Julius Roehrs, and

Whereas, In the passing of our brother we have suffered the loss of a sincere friend and staunch supporter of all that stands for good in the profession of gardening, and

Recognizing that through his decease the world has lost one whose achievements in horticulture have been equalled by but few, and through whose accomplishments many have been benefited,

It is fitting therefore, that we, The National Association of Gardeners, assembled in annual convention, should give expression of our feelings over the loss of our esteemed fellow member, and that we spread upon the records of our proceedings the deep sorrow we feel, and that we convey our sympathy and condolence to his bereaved family.

Be it resolved, That we tender to the family of the deceased our deepest sympathy and that a copy of these resolutions be sent to the family and that they be spread in full upon the minutes of the meeting.

F. R. PIERSON,
JAMES MacMACHAN,
M. C. EBEL,
Committee.

Dr. Thomas J. Headlee, State Entomologist of New Jersey Experimental Station at New Brunswick, addressed the meeting on, "The Relationship of the Gardener and the Entomologist," and his remarks were well received. After a general discussion on the various problems which confront the gardener, the meeting was adjourned to the Hotel Endicott where the annual banquet occurred.

At the banquet the following resolutions were adopted:

Whereas, the Horticultural Society of New York, having invited us to become its guest, at its annual flower show and to hold our convention in the American Museum of Natural History under its auspices and offering to secure for us ample accommodations for our business session, all of which we accepted.

Resolved, that the National Association of Gardeners tenders to the Horticultural Society of New York a hearty vote of thanks and appreciation

Resolved, That it tender to Mr. Frank R. Pierson, for his address of welcome; to Dr. Thomas J. Headlee, of New Brunswick, N. J., for his interesting paper at our convention; to Arthur Herrington, for his able services as toastmaster at our banquet, and to Charles H. Totty, for his contribution of flowers for table decorations, a hearty vote of thanks and appreciation.

PETER MURRAY,
ROBT. WILLIAMSON,
M. C. EBEL,
Committee on Final Resolutions.

The Banquet.

The meeting of the National Association of Gardeners in New York wound up in a glorious jubilation at the Hotel Endicott on Monday evening, November 3. The affair will long be a bright and happy spot in the memory of all who participated. The menu was all that could be wished and there was plenty of music by the orchestra, not to mention the vocal efforts singly or in chorus by the merry participants in this care-free and inspiring event.

President W. H. Waite presided. In a few neat remarks he introduced A. Herrington as toastmaster and the great success of the evening was due in no small degree to the able manner in which Mr. Herrington filled the position. The speakers included R. Vincent, Jr., of Baltimore; F. R. Pierson, as representing the New York Horticultural Society; W. J. Stewart of Boston, C. H. Totty, H. A. Bunyard, J. F. Johnston, President Brown of Nassau County Horticultural Society, Wm. Duckham, leading light; Jas. Dorward, J. Harrison Dick, J. Austin Shaw, A. Jenkins, August Grave, W. E. Maynard, Robt. Williams of Greenwich, Secretary Ebel, and Mr. Miller from Garrison. These were all called upon in the order named to contribute of their wit or wisdom to the general cause, and if applause was any criterion, it must be acknowledged that they all were right on their job.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 80

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Roiker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Lilium Candidum and Other Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Wilk, 155 W. 33rd St., New York.
Bulbs for Fall Planting.
For page see List of Advertisers.

Weeber & Don, New York.
Mammoth Narcissus Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Harlowarden Greenhouses, Greenport, New York.
Stock Chrysanthemum Plants.

CHRYSANTHEMUMS—Continued

CHRYSANTHEMUM STOCK PLANTS.

	Per 100
Chysolora	$4.50
Mrs. Charles Razer	4.50
Elsie Popworth	4.00
Pacific Supreme	3.00
Alice Byron	3.00
Bonaffon (Yellow)	3.00
Robt. Holliday	2.50

CONRAD SCHULTZ, Westerly, R. I.

CINERARIAS

Cinerarias. Large flowering. Large 3-in., $3.50 per 100; 2-in., $2.00. Cash. J. W. MILLER, Shiremanstown, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

For List of Advertisers See Page 627

FERTILIZERS—Continued.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., 273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
Gladiolus America.
For page see List of Advertisers.

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

100,000 Giant Flowering Childsi and Silver Trophy Florists' Lt. Mixt., small sizes, $2.50 to $6.00 per 1,000. Bulblets, 50c. per qt. All clean northern grown stock. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide.
New York City.
For page see List of Advertisers.

KENTIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

Loechner & Co., New York, N. Y.

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Cold Storage.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Loechner & Co., New York, N. Y.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MUSHROOM SPAWN

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

Loechner & Co., New York, N. Y.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIMROSES

Miller's Giant Obconica Primula—Strong, 3-in., $4.00 per 100. Malacoides Primroses, 2-in., $2.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Conard & Jones Co., West Grove, Pa.
Choice Hardy Climbing Roses.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

RUSCUS AND RUSCUS WREATHS

Poehlmann Bros. Co., 72 and 74 E. Randolph St., Chicago, Ill.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association,
San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Hatcheri and Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., 11 Warren St., N. Y.
Danish, New Zealand and Swedish Vegetable Seeds.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1874-76 Milwaukee Ave., Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 627

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Wm. Sim, Cliftondale, Mass.
For page see List of Advertisers.

Governor Herrick, extra large clumps, clean and healthy, $4.00 per 100. Cash with order. C. W. MOECKEL, Fitchburg, Mass.

PRINCESS OF WALES VIOLETS. Strong, field-grown plants, $5.00 per 100. J. W. TULLOCH,
Danvers, Massachusetts

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

New York—Continued

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CARNATION MATCHLESS.

Cottage Gardens Co., Inc., Queens, N. Y.
For page see List of Advertisers.

GARDENIAS.

S. S. Pennock-Meehan Co., Philadelphia, New York, Washington and Baltimore.
For page see List of Advertisers.

GLORIOSAS, CAMELLIAS, ORCHIDS AND STOVE PLANTS.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

LILIUM HENRYI.

John Lewis Childs, Flowerfield, L. I., N. Y
For page see List of Advertisers.

MEYER'S GREEN "SILKALINE."

John C. Meyer Thread Co., Lowell, Mass.
For page see List of Advertisers.

PEONY AND BLEEDING HEART ROOTS, SPIREAS AND LILY OF THE VALLEY.

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

PLANTS, BULBS AND SEEDS.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

POTASH.

German Kali Works, Inc., 42 Broadway, New York.
For page see List of Advertisers.

WHOLESALE FLORIST.

B. S. Slinn, Jr., 55 and 57 West 26th St., New York City.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

WANTED—Situation in florist greenhouse establishment. First-class grower of carnations and bedding stock. "H," care HORTICULTURE.

FOR SALE

FOR SALE—An old-established flower and plant growing establishment, ten miles from Boston. Ten acres of land and six houses, of which one is new, 30 x 250. There are two dwelling houses on the place, also stable and out-buildings. Soil has fine record for roses and violets. Price low and terms reasonable. Owner is moving to another place. Address N., care HORTICULTURE, Boston.

FOR SALE—At a bargain, 8 acres of land, finest soil in Illinois; located on section line on northwest side of Chicago; city water, convenient to two R. R. stations, stone road to property; for particulars on this and other property suitable for greenhouse plants, address PETER PEARSON, 5732 Gunnison St., Chicago.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualit'es. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

ILLUSTRATIONS

ARE

MONEY-MAKERS

FOR

ADVERTISERS

A good illustration is often the means of making a sale, especially if it shows something new or novel.

We have in stock many of the cuts used in our reading articles, all of which show the best type of the subject illustrated and in an effective manner.

They should all prove effective for catalogue or advertising purposes and can be secured at about half price.

Tell us your requirements and we will send you proofs of cuts nearest suited to your needs.

HORTICULTURE PUBLISHING COMPANY
11 Hamilton Place, - Boston, Mass.

CHRYSANTHEMUM SOCIETY OF AMERICA.

President C. H. Totty's address at the meeting in Chicago, November 5, 1913.

Fellow Members of the Chrysanthemum Society of America:

We are once more assembled to do homage to our favorite flower, the chrysanthemum, and in the name of the Society I bid you welcome!

Just how far we have progressed since a year ago, I must leave the exhibition to say. The weather all along the eastern seaboard has been so wretched that many of our very finest flowers never reached maturity. Our brethren in the Central States are not bothered, I understand, by the night fogs. They have cause to thank a discriminating Providence for sparing them this particular misfortune, although perhaps they have other troubles which counterbalance it.

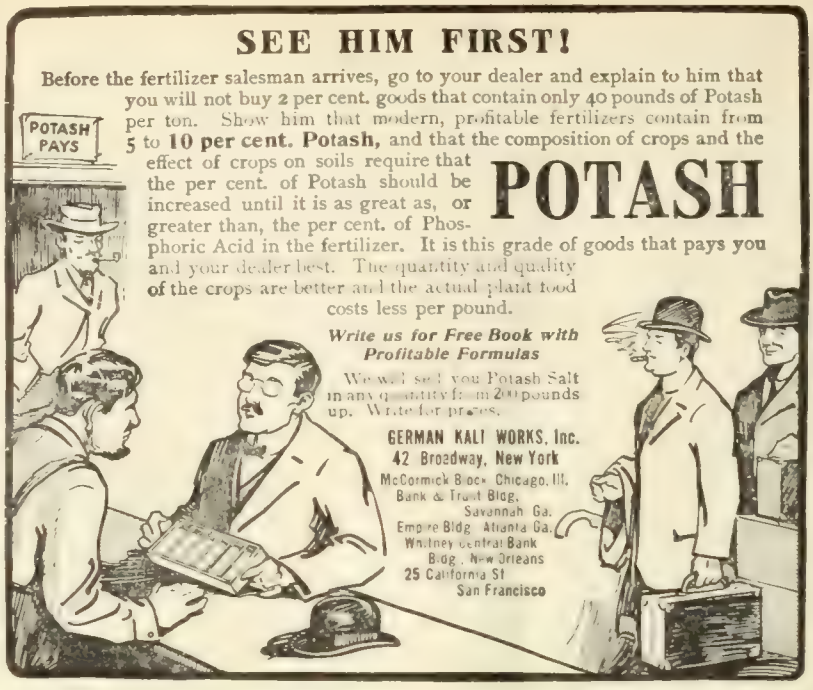
I think I may safely say that in my eighteen years of chrysanthemum growing in New Jersey, we have never had such a season as this, with temperature running as high as 75 at night and a heavy fog that rolls up and causes the foliage and flowers to simply reek with moisture. As a rule, damping is confined to flowers that have been heavily fed more or less, but this year for the first time in my experience that I saw flowers which had never been fed at all, damp off almost as badly as flowers that had been overfed.

It is, indeed, depressing to the grower of fancy stock to see his labors for the past six or seven months wiped out in a night, but this apparently is one of these conditions that the 'mum grower is unable to prevent or advise upon. I thought perhaps if the Society could get up a list of what would be non-damping kinds, it would be useful to the grower living in a foggy zone. Chrysolora, for instance, was the bright particular star of our collection as comparatively few of the flowers failed to mature in good shape. The question of loss in a season like this is a very serious one and none of our members, I am afraid, made any money so far this fall out of his product.

I feel that the demand for the chrysanthemum is just as large as it ever was or even larger, but this year in the large eastern wholesale markets the thousands, nay, millions of dahlia blooms brought in formed a staggering load for the chrysanthemum to overcome, since the dahlia can be and is sold so cheaply. We can, of course, have no argument with the dahlia grower, for he, like ourselves, is entitled to make what he can out of his business and enjoy the fruits of the earth, but it does seem as though the problem of distribution to the masses could be better accomplished in some way than by crowding the wholesale markets to such an extent that nothing can be sold at a remunerative figure. We have the varieties, we have the cultural skill, but in a season such as this last one we certainly have not had the market to dispose of the stock. If there is anyone who knows of a way to overcome this condition I would be glad to have him mention it or have the matter thrashed out in a meeting, by members present. Had Providence favored us with a good sharp frost or two the last days of September as very frequently happens, there would have been a different story to tell. One good result, however, of the beautiful fall has been the marvellous display of outdoor early flowering chrysanthemums. In our own case several acres that we planted have been a wonderful sight since the last week in September and even today are very, very fine in spite of the drenching rains and heavy fogs.

Can the market for chrysanthemum blooms be increased? Personally, I think it can by growers broadening out their list and not confining themselves to the eternal Ivory, Bonnaffon, and one or two other kinds. Where one is shipping to a wholesale market the varieties that will ship well must be a first consideration and, of course, take first precedence, but it will be noted in an exhibition that ladies rave over the large-flowered Japanese varieties, the singles and any other odd type that comes up. This is a point for the observer to make his deduction from. The buyer would willingly take something different if given a chance and while the shipper to a wholesale market is always handicapped by the apathy of the retailer, who only wants a few staple varieties and large quantities of them, still the grower, of whom there are thousands in America, who retails his own products, should certainly enlarge his list of varieties. He is enabled to do this because the problem of packing and shipping is not of such consequence to him as it is to a grower for the wholesale market. The public mind is very fickle and the cry is always for something a little different, something new, and the grower who has something different for his customers every year, can always succeed in holding them and make good money.

How can we increase our membership? This is a yearly question at this time and the answer is still somewhat problematic. The kindred societies such as the Rose and Carnation Societies have something of interest



LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Green Flies and Black Flies Too Are Easy To Kill With
"TIP-TOP"
BRAND
Tobacco Powder
For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.
Interstate Tobacco Co., Inc.
1397-1399 Ave. A, NEW YORK
Money refunded if not satisfied. Beware of imitations. Testimonials from 2 others. Write for prices.

When writing to advertisers kindly mention HORTICULTURE.

Don't Neglect Fall Spraying **"SCALECIDE"** Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "12", 50 Church Street, New York City.

MAK-GRO ODORLESS PLANT FOOD

For Florists and General Greenhouse Work

A Scientific, Improved, Concentrated, Quick Acting, Complete Fertilizer made in *Non-Acid Granular Form* from the highest grade materials obtainable.

Especially adapted to

GREENHOUSE WORK

Vegetables, Fruits and Flowers

Special Formulas for General and Special Greenhouse Crops; prepared by men who have made a life study of Greenhouse work—not only in this country but abroad.

The services and advice of our experts is at your disposal on all matter pertaining to your Greenhouse problems.

MAK-GRO ODORLESS PLANT FOOD

Is put up in various sized packages, and sold in lots of from

ONE POUND TO CARLOADS

The one pound cans and small packages make a splendid side line for Florists having their own stores.

Write us for further particulars.

DEPT. 5

CONSUMERS FERTILIZER CO. Long Acre Building NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In Writing Advertisers Kindly Mention HORTICULTURE

FALL SPRAYING

Fruit trees, ornamental trees, evergreens, and all hardy stock susceptible to scale and other insects should be thoroughly sprayed before freezing weather sets in.

SCALINE will cleanse your trees and shrubs of San Jose, Oyster Shell and other hard scale, red spider, larvae of the aphis, grub of the locust borer, and other insect pests which secrete themselves in the crevices of the bark during the dormant season.

SCALINE is composed of a high grade of petroleum and the properties of the well known fungicide, **FUNGINE**; mixes readily without agitation; is used at a strength of one part to twenty parts water; containing no sediment can be applied through the finest spray nozzle, and requires no drenching of the plants, but simply misting them, to get effective results.

Gallon, $1.50; 10 gallons, $10; 50 gallons $37.50.

We answer inquiries.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — VERMINE

NIKOTIANA

British Distributors

BRITISH & AMERICAN FERTILIZING CO.

Liverpool, England.

Mention HORTICULTURE when writing



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

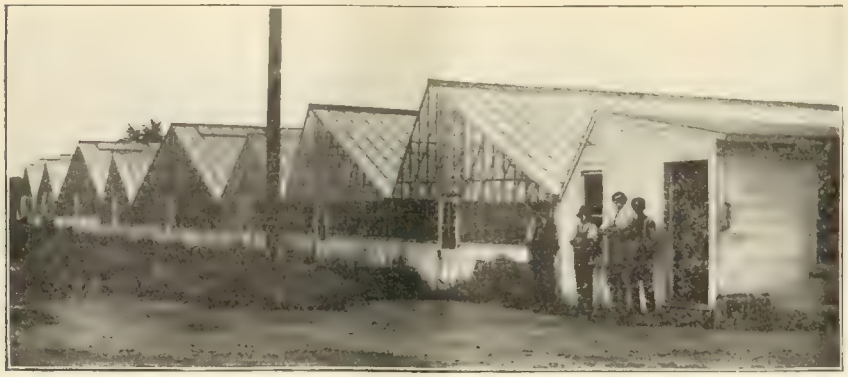
Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

THE BRIGHAM GREENHOUSES.



The accompanying illustration shows the tidy greenhouse establishment of Frank P. Brigham, Belvidere., Ill. All the houses are uniformly 225 ft. in length. The stock grown consists of roses, carnations, snapdragon and lilies of exceptional quality. Visitors are always welcome here.

for their members at almost any season of the year. The Chrysanthemum Society may be said to live and move and have its being only during the month of November and just about the time a prospective member is getting enthused the season is over and his interest has again waned for another year. The Society is doing excellent work, weeding out inferior varieties and acting as a buffer between such inferior kinds and the grower. It is entitled to the support of every chrysanthemum grower in the country on this ground alone. Again the large number of enthusiasts who grow chrysanthemums outdoors without any glass protection whatever, should form a goodly host for any society, but apparently we have not yet found a way to reach them. I have mentioned this particular subject before because I feel quite strongly in favor of having them as members, realizing as I do that they can never be accused of having a direct financial interest in the development of the Chrysanthemum Society of America, and are working solely and simply for the love of their favorite flower. I cannot believe that the charge of $2.00 per year for dues is the reason for their not joining us. Any suggestions that could be forwarded for reaching these people would, I am sure, be welcome by the officers of this Society.

Whatever progress has been made by the C. S. A. is due entirely to the efforts of our conscientious Secretary, C. W. Johnson, who has worked early and late in the interest of the Society and who deserves praise for the results he has accomplished for it.

S. A. F. STATE VICE PRESIDENTS.

"In order to enable the coming administration to select the best men for the offices of vice-president," a circular letter signed by President Farquhar and President-elect Wirth, of the S. A. F. has been sent to S. A. F. members asking them to give their kind assistance by sending to the President-elect the names of such men as, to the best of their knowledge, they believe will fill the position with credit to their state, and in the interest of their Commonwealth and the National Society. Such suggestions should be in the hands of the President-elect not later than December 1st. 1913.

CLUB AND SOCIETY NOTES.

The annual meeting of the Massachusetts Horticultural Society for the election of officers for the ensuing year, etc., will be held.

The thirty-ninth annual convention of the American Association of Nurserymen will be held at Cleveland, Ohio, June 24-26, 1914. The Hollenden Hotel will be headquarters.

JOHN HALL, Secretary.

The landscape gardening class of the Gardeners' and Florists' Club of Boston had a field day at Hyde Park, Mass., on invitation of M. B. Barrett, on Sunday, October 5. The day was spent in field practice and Mr. Barrett furnished bountiful refreshments.

A special exhibition of fruits will be held under the auspices of the Mass. Horticultural Society and Horticultural Hall, Boston, Wednesday to Sunday, November 12 to 16 inclusive.

The New England Fruit Show, Inc., will hold its Third Biennial Exhibition at the same time and place.

At the October meeing of the Gardeners' and Florists' Club of Baltimore, Leo Niessen, of Philadelphia, gave an interesting address on "Publicity." A committee consisting of G. O. Brown, N. F. Flitton, I. H. Moss, J. J. Perry and Jas. Hamilton was appointed to solicit subscriptions for a publicity fund. The fall exhibition will be held November 18-22, inclusive.

The next meeting of the New York Florists' Club on Monday evening, Nov. 10, will be Ladies' Night. An elaborate spread has been arranged for, also a fine vaudeville entertainment, and plenty of fun is promised. Eleven new names are proposed for club membership, which shows that the organization is making rapid progress under the management of President Siebrecht.

The Horticultural Club of Boston had, as its guests at the November meeting, Leonard Barron, editor of the Garden Magazine, New York, and Election Commissioner Martin of Boston. Mr. Barron gave a thoughtful and thought-inspiring address on "Horticultural Journalism," which was freely debated. A cablegram of good wishes was received from President Farquhar, who is now in Germany.

The new pink carnation Philadelphia made its debut here, two vases of superb blooms having come on from Detroit in excellent shape and the variety was greatly admired for its vigor and keeping qualities.

PERSONAL.

Harry G. Morton, formerly at R. M. Saltonstall's, Chestnut Hill, Mass., is now head gardener at Mrs. Plant's, Cohasset, Mass.

Charles H. Totty was the Republican candidate for mayor of Madison, N. J. We have not yet heard how the tables turned and so cannot yet extend congratulations or proffer sympathy, but "we hope for the best."

St. Louis visitors: J. J. Karins, representing H. A. Dreer, Phila.; M. La Vine, New York.

Boston visitors: F. J. Keller and Mrs. Keller, Rochester, N. Y.; D. Lumsden Durham, N. H.; W. A. Kennedy, representing C. C. Pollworth Co., Milwaukee, Wis.; J. H. Snyder, Buzzard's Bay, Mass:; Leonard Barron, Garden City, N. Y.

KING
GREENHOUSES
are practical, first, last and all the time. Every detail is the result of careful study.
Sunshine makes things grow and a King simply captures every ray of sunlight.
Write us for information no matter how inexpensive or extensive a house you need.
King Ideal Boilers and King Air Valves are worth investigating.
KING CONSTRUCTION COMPANY
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.


DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½ inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

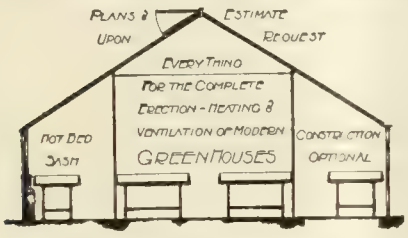
WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Roiker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass.
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

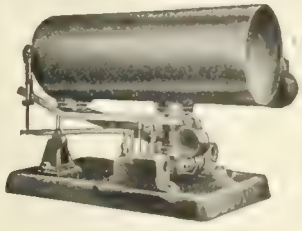
MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty Lasts longer than putty. Easy to apply.

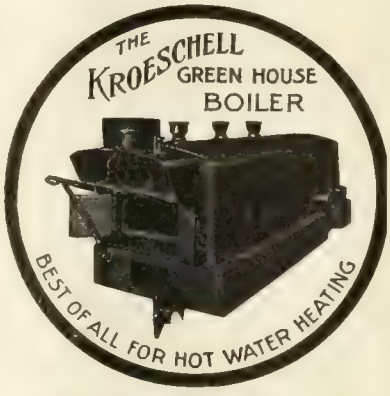
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side Can't twist and break the glass in driving Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented No others like it. Order from your dealer or direct from us.
1000, 75c postpaid. Samples free.
HENRY A DREER,
714 Chestnut Street, Philadelphia.





CONSULT US-ON-THE HEATING
ROB'T ROSS-JONES
HARRISBURG, PENNA.

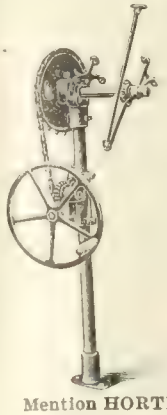
Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

Mention HORTICULTURE when writing



The top illustration is the house erected for Mr. C. A. Stone at Plymouth, Mass.

The bottom illustration shows one erected for Mr. E. S. Webster, Chestnut Hill, Mass.

Big Eastern Contractors Let Their Greenhouse Contracts to L & B

THE contracting firm of Stone and Webster of Boston, are credited as being one of the largest building firms in the East.

The fact that both heads of this concern gave Lord & Burnham the contracts for building their greenhouses is an endorsement of our work that means much.

It is evidence that they look upon the constructing of greenhouses as a high order of building, requiring both much experience and a particular training.

When you come to consider building a greenhouse — consider the considerations of these big contractors.

For your further convincement, let us send you our catalog. Or better yet, set a day for one of us to come and talk things over with you.

Lord and Burnham Company

SALES OFFICES:

NEW YORK	BOSTON'	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

HORTICULTURE

Vol. XVIII. NOVEMBER 15, 1913 No. 20



GOLD MEDAL EXHIBIT OF SINGLE CHRYSANTHEMUMS
AT Madison, N. J. BY CHAS. H. TOTH

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

Six Superb New "Spencer" Sweet Peas

Selected Seed of Our Own Growing at Floradale Farm—The Home of Sweet Peas

King White This already famous variety marks an epoch in the Sweet Pea world. It is in a class by itself, as much superior to all other existing whites today as was **Dorothy Eckford** when first offered in 1903, or **Burpee's White Spencer** in 1908. Too much cannot be said in praise of this unique new white Spencer. It has all the first-class qualities which go to form Sweet Pea perfection. It is remarkable for the **"glistening immaculate purity of the whiteness"** and the perfect finish of the flower. While of truly gigantic proportions the flowers are most exquisitely finished in every detail. **King White** has such marvelous substance, which might almost be termed "leathery," that it is entirely free from the objectionable reflexing habit so generally found in the standard of other whites. The grand flowers are borne almost invariably in "fours" upon stout stems of great length. The bold, widely expanded standard is waved exquisitely, while the wings, also well waved, are beautifully placed. The plants are exceptionally vigorous in growth with distinctive rich green foliage, and wonderfully profuse in bloom for a long season. **KING WHITE is the one white** for both exhibitors and market growers, while it is indispensable in every up-to-date amateur's collection. **King White** received an Award of Merit from **The National Sweet Pea Society of England**, July, 1912, after having been grown in their trials; also Award of Merit by **The Royal Horticultural Society of England**, July, 1913; Certificate of Merit by **The Pennsylvania Horticultural Society**, Philadelphia, June 26, 1913; and Bronze Medal from **The North Lonsdale Rose Society**, Ulverston, England, July, 1913.

In sealed packets containing fifteen seeds each. **Per pkt., 15 cts.; $1.00 per dozen pkts; $7.00 per 100 pkts.** In lots of 500 pkts. or more, **$6.25 per 100 pkts.** (Cable word, **Rex.**)

In sealed packets containing thirty seeds each: **Per pkt., 25 cts.; $2.00 per dozen pkts.; $13.75 per 100 pkts.** In lots of 500 pkts. or more, **$12.50 per 100 pkts.** (Cable word, **King.**)



KING WHITE.—Natural Size.

Illuminator It is almost impossible to adequately describe or paint the beauty and surpassing grace of this unique novelty. In color it is perfectly distinct from all other varieties and has been pronounced **the most glorious Sweet Pea ever seen.** It might be described as a rich glowing cerise-salmon, with an indication of bright orange suffusion which marvelously scintillates and glistens under bright sunlight; under artificial light the flowers appear to be a glowing orange-scarlet. Uniformly of large size and great substance. The flowers are most perfectly formed and well placed on long stout stems, frequently in "fours." Of vigorous growth, the vines carry a rich profusion of bloom. We were awarded a Certificate of Merit for **Illuminator** both by the American Sweet Pea Society, at the great Boston Show, July, 1913, and The Pennsylvania Horticultural Society, Philadelphia, June 26, 1913.

In sealed packets containing twelve seeds each: **Per pkt., 15 cts.; $1.00 per dozen pkts.; $7.00 per 100 pkts.** In lots of 500 pkts. or more, **$6.25 per 100 pkts.** (Cable word, **Shining.**)

In sealed packets containing twenty-five seeds each: **Per pkt., 25 cts.; $2.00 per dozen pkts.; $13.75 per 100 pkts.** In lots of 500 pkts. or more, **$12.50 per 100 pkts.** (Cable word, **Illuminator.**)

Charm As the name implies, this novelty is indeed a "charming" variety of delicate and exquisite color, such as we have every confidence in introducing to our friends. It was awarded a Certificate of Merit by the American Sweet Pea Society in 1911. The flowers are of fair size and most of the strong stiff stems bear four flowers each. One of the finest Spencer type, they are througout a glistening pure snow-white, suffused equally through standard and wings with delicate flesh or blush-pink. It comes very true and is a most beautiful variety for bunching.

Wholesale: **Per oz., 50 cts.; per lb., $6.00.**

Decorator This may be described briefly as an ennobled **"Rose du Barri"** greatly increased in size and brought to true Spencer type. Of vigorous growth the vines flower profusely, bearing on long stems three and frequently four very large and beautifully waved flowers. Whether seen on the plant or used for house and table decorations (especially under artificial light) its merits are immediately recognized. The color is rich rose overlaid with terra-cotta, intensifying to deep bright orange at base of wings. Awarded Certificate of Merit by the National Sweet Pea Society of England and the Elberon Horticultural Society, at Asbury Park, New Jersey, 1912.

Wholesale: **Per oz., 50 cts.; per lb., $6.00.**

Orchid Never before have we seen a lavender with all the qualities of **Orchid**; the flowers are softer in tone and more refined in contour. The color is rich deep lavender throughout, slightly suffused pink on both standard and wings. The flowers are practically of a self color suggesting the rich tone found only in the **Cattleya** family of orchids. The flowers are of extra large size, always borne three and four (with plenty of fours) on long stiff stems. The plants are most vigorous in growth and profuse flowering. While so profuse flowering most of the flowers are dropped without producing any seed-pods, hence the seed is very scarce.

Wholesale: **Per oz., $1.00; per lb., $12.00.**

Margaret Atlee The flowers are of largest size, exquisitely waved, and borne profusely in fours upon long, strong stems. The color is rich glowing pink on cream, suffused with salmon; there is a distinct blotch of primrose at the base of the standard, thus lightening up the flower most wonderfully. The color becomes slightly deeper towards the edge of the standard, while the wings are a pleasing shade of rosy-salmon. **Margaret Atlee** gives many duplex, or double, flowers and has been greatly admired both in America and England. We were awarded a Certificate of Merit for this lovely novelty by the American Sweet Pea Society, June 29, 1911, although we are only now first able to offer the seed.

Wholesale: **Per oz., $1.25; per lb., $18.00.**

IMPORTANT NOTICE. ☛ **We can accept no further wholesale orders for either EMPRESS EUGENIE or WEDGEWOOD of which we have to report already "SOLD OUT."**

W. ATLEE BURPEE & CO., - Philadelphia, U. S. A.

Cable Address: BURPEE, Philadelphia.

MATCHLESS

WINNER OF TWO GOLD MEDALS

DO NOT FAIL to get in your order early for **MATCHLESS**, the **NEW COMMERCIAL WHITE CARNATION.** Superior in size, fragrance and keeping qualities.
A non-bursting, very prolific and continuous bloomer.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY. (All stock sold to Feb. 1)

PRICE FOR ROOTED CUTTINGS: $12.00 per 100; $100.00 per 1000

(ORIGINATORS)

COTTAGE GARDENS CO., Inc.

QUEENS, NEW YORK

In Writing Advertisers Kindly Mention HORTICULTURE.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.

Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....691
Albany Cut Flower Ex....682
Alexander, J. K.670
Allen, J. K.....682
Am. Importing Co. 679
Anderson, S. A..678
Aphine Mfg. Co..689
Aschmann, G....669
Atlanta Florist Co. 680
Ayres Co., S. Bryson 675
Badgley, Reidel & Meyer.....682
Balsley, Harry..690
Barrows & Son..660
Bayersdorfer, H. & Co. 679
Bay State Nurseries 670
Bloomingdale's, 676
Bobbink & Atkins 671
Boddington, A. T. 673
Bolgiano & Son, J. 675
Boston Florist Letter Co.....680
Breck, J. & Sons.675
Breck - Robinson Nurseries 671
Breitmeyer's, J. Sons 676
Brookland Gardens 659
Bryan, Alonzo J.669
Burnett Bros....675
Burpee, W. A. & Co. 658-675
California Florist 677

Page
California Seed Growers' Asso.675
Chicago Carnation Co.....680
Childs, John Lewis 669
Consumers Fertilizer Co.....689
Cooke, Geo. H...679
Clarke's, D. Sons.676
Conine, F. E. Nursery Co....670
Cottage Gardens Co. 659
Cowee, W. J....680
Craig, Robt. Co.669
Dards 676
Davenport, A M.669
Dawson, H. S...660
Detroit Flower Pot Co.....690
Dorner & Sons Co. 660
Dreer, H. A.671-690
Dunlop, John H.677
Dysart, R. J....683
Eastern Nurseries 660
Edwards Folding Box Co.....680
Elliott's, W.Sons.675
Eppstein, Julius.677
Ernest, W. H...690
Esler, J. G.....690
Eyres 678
Farquhar, R. & J. & Co.....669
Ford, W. P.....682
Ford, M. C.....682
Forrest, Frank H. ... .677
Fottler, Fiske, Rawson Co....675
Freeman Orchid Co. 673

Page
Framingham Nurseries 671
Froment, H. E..682
Galvin, Thos. F. 677-678
Gasser, J. M. Co.677
Goodsell, P. H..671
Grey, T. J. Co..675
Gude Bros. Co..677
Hail Association.690
Hall & Robinson.677
Hart, Geo. B....683
Heacock, Jos....669
Heinecken, Otto.675
Henderson, A....669
Hess & Swoboda.676
Hews, A. H. & Co. 690
Hill, E. G. Co.670-680
Hitchings & Co.691
Hoffman 678
Holland Nurseries 670
Hilfinger Bros..690
Holm & Olson..676
Hudson Carbon Co. 688
Industry Moss & Peat Co.....673
Interstate Tobacco Co.....689
Johnson, J. Oliver 675
Johnston Bros...677
Jones, Robert Ross 690
Kasting, W. F. Co. 683
Kervan Co.....682
Keller, J. B.Sons.676
Keller, J. M. Co.660
King Construction Co.....690
Komada Bros...679
Kramer, F. H...677

Page
Kroeschell Bros.691
Kuebler, W. H..682
Lager & Hurrell.673
Lemon Oil Co...688
Leonard Seed Co.675
Leuthy, A. & Co.660
Loechner & Co..675
MacMulkin, E...677
May & Co., L. L.678
McCallum Co....683
McCarthy, N. F. Co. 680
McConnell, Alex.676
McCray Refrigerator Co.....679
McHutchison & Co. 660
McKenna & Son, P. 677
McKenzie, John..660
McManus, Jas...682
Metropolitan Material Co.....691
Meyer, J. C. Thread Co.....679
Michell's Seed House 674
Michigan Cut Flower Ex....680
Millang, Chas...682
Millang, Frank..682
Montreal Floral Exchange 682
Moore, Hentz & Nash 682
Murray, Samuel.676
National Nurseryman 671
N. E. Nurseries..670
Nicotine Mfg. Co.689
Niessen, Leo. Co.680
N. Y. Stable Manure Co.....689
Oechslin, Frank.659
Ouwerkerk, P...670

Page
Park Floral Co..676
Palmer, W. J. & Son 678
Parshelsky Bros.691
Penn the Florist.677
Pennock - Meehan Co. 681
Pierce Co., F. O.690
Pierson, A. N...660
Pierson, F. R.Co.679
Pierson U - Bar Co. 692
Plant Food Co., 20th Century..689
Pochlmann Bros. Co 680
Pollworth, C. C..676
Pulverized Manure Co.....689
Quaker City Machine Co.....691
Randall's Flower Shop 678
Reed & Keller..682
Reid, Edw.....683
Reinberg, Peter..680
Reuter's 677
Rice, M. Co.....677
Robinson Co., H. M 682
Roehrs, J. Co..673
Roland, Thomas.660
Rolker, A. & Sons 660-690
Rosary, The.....678
Rosery, The.....676
Sander & Son...673
Scott, John.....660
Schling, Max....677
Schwake, Chas. & Co.....659
Sheridan, W. F.682
Sharp, Partridge & Co.....691

Page
Siebrecht, Geo.C.682
Siggers & Siggers 690
Skidelsky, S. S. & Co.....675
Slinn, B. S.....683
Smith, P J.....682
Smith & Co., E. D. 671
Smith, W.&T.Co.670
Smyth, Wm. J..676
Sprague, J. H..673
Stearns, A. T. Lumber Co....691
Stumpp, Geo. M.676
Totty, Chas H..659
Thorburn, J. M. & Co.....675
Traendly & Schenck 682
Troy, J. H.....678
Valentine, J. A..676
Van Assche, F..691
Vincent, R., Jr., & Sons Co....669
Wants, For Sale.687
Ward, R. M. & Co 660
Weber, F. C.....677
Weeber & Don..675
Welch Bros.....680
Whittier & Co., W B 671
Wilk, John.....675
Wilson, Robt. G.676
Wood Bros.....660
Woodrow & Marketos 683
Young, John....682
Young & Nugent.676
Zangen O. V....674
Zinn, J. A.....677
Zvolanek, Ant. C.675

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 684, 685, 686, 687

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per caae of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn
and Whitestone, L. I., New York

CYCLAMEN

Best strain in existence.

4 inch	$25.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.
Bedding Plants and Roses

AZALEAS

Extra fine Plants of the Christmas and Easter Variety.
BOSTON FERNS, ARDISIAS
Send for prices
JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2890 Bedford **BROOKLYN, N. Y.**

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS
On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale, Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Begonia Gloire de Lorraine

Now is a good time to start propagation of Begonia de Lorraine and Cincinnati. Stock for next year must spring from early struck leaf cuttings. There can be no doubt as to the superiority of early started plants from leaf-cuttings over those propagated later by rooting side shoots in the usual way, though the latter have their uses and are probably as valuable as anything expressly raised for a holiday trade. Well-matured leaves, but still of a healthy, spotless green, are taken from the most vigorous plants in such a manner as to cause no disfigurement. Cutting away the stubby end of the leaf stalk, about half an inch below the leaf is all the trimming needed. This lower end when inserted in the sand will just bring the base of the leaf in close contact with the surface of the sand bed. A steady heat of not less than 70 degrees in the sand with a few degrees lower overhead, a somewhat close and moderately humid atmosphere, frequent sprinkling and the exclusion of bright sunshine by portable shades, insure a good start and healthy root formation.

Allamandas

Plants that you have been growing on during the summer should now be given a place where they can ripen up their wood. Reduce the water supply gradually until the wood becomes well ripened up. This is one particular essential in their culture. Water may be withheld to the point of flagging as long as you do not allow the wood to shrivel, which would work a great injury if allowed to happen. Give these plants a place in some house that stands at about 50 degrees at night. In order to perfect wood that will flower well give them a place where they can receive all the sunshine possible. See that they have plenty of ventilation whenever possible, as this goes hand in hand with reduced watering and temperature in bringing allamandas to the right condition.

Freesias

Freesias require a nice moist state at the roots. To get them in flower for the holidays give them a shelf or bench in a house where a night temperature of 55 degrees is maintained. Give ventilation on all favorable occasions but never allow cold drafts. They appreciate doses of liquid manure if not too strong, which would cause a browning on the ends of the leaves. They are also easily injured by fumigation but will stand tobacco papers without injury. Late batches can be held in a cold house or even in frames for some time. Freesias are excellent for design work and those with a local trade can scarcely afford to be without them.

Rhododendrons

These plants are of special value for forcing during Easter time. When received they can be placed in soil in some root house or cool pit and the roots kept moderately moist. When being potted they want a very porous soil, such as two parts of fibrous loam, one part of leaf mold and about half this quantity of sand. Keep them in a cool place, anywhere just above freezing. In February they can be brought into a temperature of about 50 degrees at night which can be increased to about 62 degrees at night. At this stage they like a moist atmosphere and should be freely syringed, but must be removed to a more airy and a cooler house when their flowers begin to open. Be sure when ordering that you get the varieties that are suitable for forcing and that are well set with buds.

Paper Whites and Roman Hyacinths

I have often mentioned the fact that paper white narcissi should be brought in early and given lots of time in a cool house. The same can be said of Roman hyacinths, although the romans will endure a much higher temperature without harm. I have seen paper whites brought in and put down by the side of the path in a warm house and grow all to leaves. This is entirely wrong. This early, cheap bulb is most useful at the holidays, and the way to make it so is to bring in the flats in the first half of November and put them on the bench in the full light, in a house where it is about 50 degrees at night. Roman hyacinths should be given 60 degrees at night and allowed six weeks to come into flower, but give them also full light. Pay a little more attention to it, provide a light, sunny, cool house where the flowers can develop slowly. If you have plants which seem a little forward a temperature of about 40 degrees and enough shade to keep the sun away will keep the stock at a standstill.

Protecting the Hardy Border

Clear all beds and borders of hardy perennials of any dead stalks, cutting them down to the ground. After this hoe and clear the ground from all manner of weeds. The winter covering of the perennial border is an important operation, and on it depends much of the future success. This protection should not be given as long as the weather continues mild. All perennials should be allowed to become inured to the present increasing cold. When the ground has formed a nice crust of frost they can be covered with some coarse manure to the depth of from 4 to 6 inches, all over.

Mr Farrell's next notes will be on the following: Care of Adiantums; Cyclamen; Lily of the Valley; Orchids; Pot Roses for Easter; Preparations for the Holidays.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Pruning Peach Trees

The pruning of peach and nectarine trees differs vastly from that of the vine. The chief reason is that the vine fruits on the wood that it makes the same year while the peach or nectarine fruits next year on the wood that has been made this year, hence the motive for retaining as much of last year's wood as possible at the time of pruning. The flower buds will be visible on all wood so, where there is a doubt as to which is the best piece to leave, select that having the most flowers. The maximum amount of flowers for the coming season can be gauged on peach and nectarine trees by the presence of the flower buds which are formed during the fall, ninety-five per cent of which should produce a perfect flower. Where disbudding was correctly done in the spring, and summer pruning was also attended to, the winter pruning will be very simple. These two operations just mentioned are the key note to well-trained peach trees. Disbudding leaves just the required number of growths in the right position to cover the trellis properly and the summer pruning removes most of the useless wood after the fruit has been gathered. At the time of disbudding I recommended leaving growths on the top side of the wood only in order to facilitate pruning. Where this is practiced the old wood on the underneath side is cut away and the new drawn down a little to take its place. This will never leave any very large spaces to be filled up as is the case when the growths are left on both sides, for when a piece of old wood is taken out there is sure to be a V shaped space which requires some growths to be drawn up and others to be drawn down to fill it in. Prune all trees before a tie has been cut so that the position of all the wood can be seen and the right space allotted to those which are to be left. It is a mistake to have a center to a fan-trained tree as the center ought to be left open thus providing space for the new wood to grow. Do not be afraid of discarding old wood; the summer pruning will not have removed all of it and an overcrowded tree will never be satisfactory. Let each piece of wood have a space of three to four inches.

Protect Strawberries

Strawberries will have been standing in their summer quarters so long as no severe weather was in sight, but the recent cold wave makes it necessary to protect them from the frosts or the pots will be broken with the expansion of the soil. A deep frame makes an ideal place to plunge them as they are away from the glass and the frost cannot get at them so easily. Use leaves that are dry and pack them around the pots tightly, placing the pots close together. See that an extra large label is placed in the right position so that the varieties are easily distinguished later on. Do not coddle the plants in any way. Probably the sash will be enough protection for a while and later on when it is necessary to add other protection do not leave it on when the weather is mild. A friend of mine tells me better fruit is obtained by not allowing the soil to become frozen at all as it injures the roots. Whether this is a fact or not I cannot say but I hand it on to the readers to try it out. Usually we have not cared about the soil freezing a little so long as it was not sufficient to break the pots.

Late Grapes—Hanging

Ripe grapes will be hanging in the late vinery now and may be allowed to remain there until the year end. Keep the house dry and airy through the clear weather with a night temperature of about 45 degrees, which, however, should not be forced to a degree. During any dull or wet weather keep at least one of the heating pipes warm and in severe weather have all the pipes warm—not hot—and should the temperature be a few degrees low when the pipes are so, do not trouble; it is better to have it so, as hot fire heat will shrivel berries quicker than anything else. As the bunches are cut remove a few from each vine which will have the same effect as taking a load off. It will mean using some of the latest varieties before the earlier ones are finished but if, say, two are cut from each one first it will help some. Such varieties as Lady Hutt, Gros Colman, Gros Guillaume (Barbarossa) and Black Alicante should keep well up to Christmas.

Vine Eyes for Propagating

If it is intended to propagate any vines next spring select some of the best laterals at the time of pruning of the varieties that are needed and have them correctly labeled and heeled in. Underneath a bench in a cool house will suit them, but if there is any danger of its getting warm before they are wanted put them outside or in a cold frame and protect them.

Setting Tomatoes

At times during the winter months trouble is experienced in setting tomatoes. This can usually be traced to excessive moisture in the house or lack of air. Unless it is very cold or windy never have the house closed up tightly; that crack of air works wonders. When watering has to be done do it as soon as the house gets nicely up to the day temperature and when possible select a fine clear day to do it. With the right atmosphere and temperature all that should be necessary is to give the plants a sharp shake at noon to distribute the pollen. Real bad cases can have the flowers fertilized with a piece of fur.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Grading for New Houses

If you are planning to build a new house or two next spring, and the ground where it is to be built is not at all level, do not wait until building time to do the necessary grading. We have just heard from one of our readers, who has had a good deal of trouble with his house settling. No matter how well the earth in the places filled may be packed, it cannot be firmed down as well as nature would do it. Therefore it is well to do your grading at once, and let the snow, rain and frost each have a chance to settle the ground down to where it should be. If this can be done two years in advance so much the better, for then the soil will be firmed almost as good as nature's own land. It may not seem possible that this settling of soil would in any way bother the houses, yet it does, and will have them all out of shape by the time five years have passed. Generally houses built now are well built, so that they will still be here fifty years from now. Picture your houses then if they are built on unsettled ground. The only way to do in such cases is to run concrete posts from the grade down into the solid earth underneath, and then let the soil settle all that it wants to for the houses will be safe.

Mildew

Many growers who have never been troubled with mildew at one place find that it is almost uncontrollable at another or new location. The fact is that every new location has new problems of its own. The air may be different, the wind may blow around some tall buildings or trees and right into the houses. The only way to do is to find out all these things of the new place and then run things accordingly, and not the same way as another place where conditions were altogether different. To ascertain the currents of air in a house take an ordinary pair of bellows filled with lime and blow some of it here and there and then watch the dust. This will show you things you would doubt if you were told, and after you know the way the air travels you can place your heat so as to counteract or change the currents of cold air, and have it come in, in such a way that the chill will be taken from it before it touches too many of the plants. Again the pipes doing service one way, will not answer very well when the wind changes.

Keeping the Plants Resistant

Keeping the plants in perfect health will be a great help to keeping mildew where it belongs, for the poor weak, overfed and overwatered plants are always sure to get it first. Keep the plants hardy, and it will be much easier to defend them against diseases, for they will do a good deal of the fighting themselves. A dressing of lime now and then will help, but too much of it is not good either.

Watering in Cold Wet Weather

Watering during cloudy weather should be avoided as much as possible, but to have the plants too dry would be equally harmful. If the weather shows no signs of clearing, and the plants are in need of water, a good watering should be given. Then allow the ventilators to remain opened a little, and try to give the house a little heat to dry off the excessive moisture and carry it out by the way of the ventilators. At sundown a little air slacked lime blown underneath the plants will help to dry out the air for the night and thus help keep away mildew spores that may be in the house asleep, for they do not grow unless conditions are ideal for their growth.

Lime and Sulphur

Where no steam is used for heating, and no other remedy is available a little sulphur mixed with lime about 1 to 2 and blown over the plants will prevent the mildew from spreading. We have found that a good spray of Fungine will do away with all traces of mildew, and if applied in time will kill it so that many leaves will be saved. This fact is mentioned only for the good of the growers, and not to advertise the article, for this is no place for advertisements. We have so far heard of nothing that can compare with Fungine and that is why no other preparation is mentioned. There is one thing, however, that goes against it, and it is that it will stain white paint wherever it comes into contact with it. This stain, however, is not permanent and will disappear in a short time. This is mentioned for the benefit of our friends in the private conservatories where all has to be kept polished all the time.

In blowing the lime and sulphur over the plants it is well to be careful not to let the powder get over the blooms or over buds just beginning to show color. This would bleach them more or less, and thus discolored would not bring the same price that good stock would.

Lining the Boxes

The warm weather that still exists should not be trusted too much and at least two thicknesses of newspaper should be used to line all the boxes used for shipping. Frost bitten flowers are not in demand, and after this happens once or twice shippers will remember it. Paper is cheaper than roses, any time.

The Winter's Coal

Strange to say that the middle of November finds many coal bins empty, and growers just beginning to think of ordering their coal. This is very poor business, and we would have little sympathy for the man who failed to get his supply of fuel on time, should an early blizzard and severe weather strike us unexpected. Let us hope it shall not be, but one cannot tell when winter will set in, and there is nothing like being well prepared. The man who is ready for any emergency is the one who will win out.

HORTICULTURE

VOL. XVIII NOVEMBER 15, 1913 NO 20

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Gold Medal Exhibit of Single Chrysanthemums at Madison, N. J., by Chas. H. Totty.
NOTES ON CULTURE OF FLORISTS' STOCK—Begonias Gloire de Lorraine—Allamandas—Freesias—Rhododendrons—Paper Whites and Roman Hyacinths—Protecting the Hardy Border—*John J. M. Farrell*.. 661
FRUIT AND VEGETABLES UNDER GLASS—Pruning Peach Trees—Protect Strawberries—Late Grapes Hanging—Vine Eyes for Propagating—Setting Tomatoes—*George H. Penson*..... 662
ROSE GROWING UNDER GLASS—Grading for New Houses—Mildew—Keeping the Plants Resistant—Watering in Cold Wet Weather—Lime and Sulphur—Lining the Boxes—The Winter's Coal—*Arthur C. Ruzicka* 663
UP TO THE MINUTE PUBLICITY..... 664
THE EXHIBITIONS—Chicago—Stamford 665
Tarrytown—American Institute—Glen Cove, Illustrations 666
Rochester 667
CLUBS AND SOCIETIES—American Rose Society—Gardeners' and Florists' Club of Boston—New York Florists' Club—Worcester County, Mass., Horticultural Society 667
Pittsburgh Florists' and Gardeners' Club—Banquet of National Association of Gardeners, Illustration—Lancaster County Florists' Club—Connecticut Horticultural Society—Minneapolis Florist Club..... 668
Chrysanthemum Society of America..... 670
Society of American Florists—Notes..... 672
OBITUARY—Adam Rothar—John Brodrib—Albert Dirwanger 672
SEED TRADE—The Potato Prospect—Seed Beans—Canners' Convention—"Future" Peas—Notes..... 674
OF INTEREST TO RETAIL FLORISTS:
Steamer Departures 676
Flowers by Telegraph..... 677
New Flower Stores..... 679
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati..... 681
New York, Washington, St. Louis.....683
DURING RECESS—Oyster Roast at Washington, D. C.—A Detroit Outing..... 688
MISCELLANEOUS:
New Corporations 672
News Notes 672-677
Catalogues Received 674
Washington Notes 678
Chicago Notes—Business Troubles..... 679
A Model Rose Establishment..... 679
City and Town Planning Conference..... 683
Personal 683
Patents Granted 688
Greenhouses Building or Contemplated..... 690

Looking ahead

Our news notes from Minneapolis inform our readers that Theodore Wirth, assiduous and [illegible], has already under way a plan for getting together a goodly representation from Minnesota to attend the S. A. F. Convention at Boston next August. Mr. Wirth's scheme whereby the necessary funds may be accumulated for each individual without being burdensome, will perhaps be found worthy of imitation by the florists of other places so remote from Boston as to make the expense of the convention trip a formidable obstacle. All will be pleased to learn that the strenuous president-elect of the national society has recovered from his painful accident and is in the harness again, lively as ever.

The Cleveland blizzard

We fear that the weather man has administered a cruel blow to the Cleveland Flower Show, for which so extensive preparation and generous provision had been made. It is difficult to believe, as Boston saunters along under a cloudless sky, that the telegraphic reports of wild gales and drifting snow, and suffering and death to the west and south of us can possibly be true. Boston will undoubtedly get her share before the winter has gone, but should be thankful that she has at least escaped this record-breaker for November. That it should hit our Cleveland friends just as flower show arrangements are being completed is a grievous misfortune at best. We sincerely hope it will turn out less so than seems likely at this time.

Horticulture's way

Ever since the issuance of its first number, now nearly nine years since, HORTICULTURE has made an annual gain in circulation, but it remained for the present year to reach the high record for new subscribers. This has been uniformly noticeable ever since the beginning of the year and frequently a new subscription is accompanied by an appreciative word for the quality of the reading matter presented from week to week. The character of HORTICULTURE's reading contents rather than its quantity, has been our first concern always. Old-time readers of this paper need no reminder of the principles on which it has based and will continue to base its appeal for support and the respect and confidence of the horticultural profession. But we hope the new readers who may peruse this note will take time to look further into the pages that precede and follow and consider what it means to the worker, striving to advance, to have at his disposal every week such a compendium of practical knowledge and helpful information as he will find there. HORTICULTURE has never entered the fight for merely big circulation at any sacrifice, but we shall be glad to see a continuance of the sort of growth which the past year has given us and would express the hope that those who like the kind of service HORTICULTURE is rendering will do whatever they can to add to the number of our readers with the coming of the new year. We offer no premiums or other inducement except full value for the money in useful reading matter and the advertisements of the most trustworthy "live-wire" houses in all departments of the trade.

Up-to-the-Minute Publicity

The introduction of a new flower or exploiting of any special line of plants as now conducted is no small undertaking. For instance we find scarcely a show this fall, from New England on the east to Chicago on the west, where the name of C. H. Totty does not appear as an exhibitor of new types of semi-double and single chrysanthemums. The expense of packing, transportation, staging, special prizes, etc., not to mention the large quantity of material required to put up a noticeable exhibit in each case, all count up. Add the cost of newspaper advertising, cataloguing, etc., and it is not difficult to see why so few raisers of new things nowadays undertake to introduce their own productions as formerly. Mr. Totty is not the only one who is thus enterprising, but these present remarks are prompted by the display staged by Mr. Totty in his home town which we have given the position on our front cover this week in compliment to the prowess and zeal so well displayed in his country-wide campaign.

THE EXHIBITIONS

THE CHICAGO SHOW.

Another Chrysanthemum Exhibit has come and gone, this one running nearly twice its scheduled time and making a record for showing some of the finest blooms, of the big fall favorites, ever seen in Chicago. Not one of the largest, but one of the best—this describes the affair in a sentence. The exhibit, which was given by the Chrysanthemum Society of America in conjunction with the Horticultural Society of Chicago and Chicago Florists' Club, was held in Blackstone Hall, Art Institute, and opened the afternoon of November 5th. When the closing day came, November 7th, the blooms were in such perfect condition that the management extended the time to November 9th and special displays of roses were added by Peter Reinberg and Bassett & Washburn, and the Chicago Carnation Company who showed vases of their Peerless Pink, Gloriosa and The Herald carnations.

The exhibit was staged by G. T. Siegert of the Mt. Greenwood Cemetery Association, and his work showed much skill and good taste. Though distinctly a chrysanthemum exhibit, two large groups of palms and decorative plants, furnished by Frank Oechslin; specimens of box woods in various shapes by Vaughan's Seed Store and fine groups of Begonias Cincinnati and Lorraine from Poehlmann Bros. added greatly to the effect as a whole. The groups of chrysanthemum plants which also added materially to the beauty of the exhibit, were furnished by Poehlmann Bros., Mt. Greenwood Cemetery Association and Vaughan's Seed Store and were mainly in plants of commercial sizes. The largest bush plants in the hall came from Iowa State Agricultural College, and the grafted plants always so admired by those outside the trade were missing. A very pretty effect was a bed of rose plants in full bloom, growing in two-inch pots sunken in moss, showing masses of the tiny roses of Baby Tausendschon, Phyllis and Germa Tetschendorf by Vaughan's Seed Store.

Very noticeable among the many excellent cut chrysanthemums was the Wm. Turner, and a vase of 25 grown by C. H. Totty won a silver medal. White blooms seemed to lead, nothing quite equalling the Wm. Turner, and Naomi was another splendid white. The older varieties as Major Bonnaffon and Eaton are keeping up well in the race. Exhibits of single blooms were quite large and made a good showing.

The rose section (not for competition) contained some noteworthy varieties. Killarney Brilliant was shown by Robert Scott & Son, Sharon Hills, Pa., and much admired. It was in as fine shape at the end of the show as at the beginning. Dorner's new red rose, No. 6, was exceedingly fragrant and of a dark rich shade. A brilliant red novelty was shown by S. J. Reuter & Son, Westerly, R. I., and E. G. Hill & Co., had a vase of their light pink Ophelia. Dorner also had a vase of his scarlet carnation Champion, and the Detroit Cut Flower Exchange exhibited Philadelphia. Two of the retailers, A. Lange and J. Mangel, sent baskets of roses to represent their branch of the trade. The out-of-town visitors were confined mostly to the exhibitors.

Cut Flower Awards.

Silver cup for 10 blooms, one variety; C. H. Totty with Wm. Turner. Gold watch for 6 varieties, 3 blooms each, private gardeners, F. D. Countiss. Silver cup for 10 blooms not disseminated, Mt. Greenwood Cemetery Corp. Silver gilt medal for best vase of blooms from cultural standpoint, Poehlmann Bros. Co. with Bonnaffon. Silver medal for best display of varieties introduced by self within five years, Elmer D. Smith.

Plants.

In the large flowering plant classes Vaughan's Seed Store won all the firsts except one which went to Poehlmann Bros. Co. Iowa State Coll. won the Geo. W. Childs gold medal for bush plants.

Vase 25 blooms, one variety, white—1st, C. H. Totty with Wm. Turner; 2nd, E. G. Hill Co. with Naomah; 3rd, Bassett & Washburn with Solamon. Vase 25 pink—1st, Mt. Greenwood Cem. Assoc. with Seedling No. 4; 2nd, E. G. Hill Co. with Chieftain; 3rd, Poehlmann Bros. with Enguehard. 25 yellow—1st, Meredith Flower & Vegetable Co. with Bonnaffon; 2nd, Poehlmann Bros. Co. with Bonnaffon; 3rd, Elmer D. Smith with Chrysolora. 25 bronze—1st, Howard Gould with H. E. Converse; 2nd, E. G. Hill Co. with Glenview; 3rd, Poehlmann Bros. Co. with O. H. Kahn. 25 red or crimson—1st, Mt. Greenwood with Pockett's Crimson; 2nd, E. G. Hill Co. with Prefettillier; 3rd, C. H. Totty with Gertrude Peers. 25 any other color—1st, E. G. Hill Co. with Loiseau Rousseau; 2nd, Howard Gould with C. H. Totty. 6 blooms white—1st, E. G. Hill Co. with Turner 2nd, C. H. Totty with Turner. 6 pink—1st, Mt. Greenwood with Seedling No. 4; 2nd, E. G. Hill Co. with Hicondelle. 6 yellow—1st, Meredith Flower & Veg. Co. with Bonnaffon; 2nd, C. H. Totty with Mrs. J. C. Neill. 6 bronze—1st, E. G. Hill Co. with Ongawa; 2nd, C. H. Totty with Mary Mason. 6 red—1st, La Crosse Floral Co with W. A. Read; 2nd, C. H. Totty with Pockett's Crimson. 6 any other color—1st, E. G. Hill with Mrs. G. C. Kelley; 2nd, C. H Totty with Mrs. G. C. Kelley. 36 blooms in 6 varieties—1st, Howard Gould; 2nd, E. G. Hill; 3rd, Poehlmann Bros. 18 blooms in 6 varieties — 1st, E. G. Hill; 2nd, C. H. Totty; 3rd, F. D. Countiss. 24 blooms in 24 varieties—1st, Howard Gould; 2nd, E. G. Hill; 3rd, F. D. Countiss. 12 blooms in 12 Japanese reflex varieties—1st, E. G. Hill; 2nd, C. H. Totty; 3rd, F. D. Countiss. 12 blooms in 12 varieties incurved—1st, E. G. Hill; 2nd, C. H. Totty. 10 vases pompons—1st, Mt. Greenwood; 2nd, Poehlmann Bros. 12 varieties single—1st, C. H. Totty; 2nd, Mt. Greenwood. 25 sprays yellow pompon—1st, Mt. Greenwood with Climax; 2nd, Poehlmann Bros. with Madge; 3rd, E. G. Hill with Madge. 25 pink pompon—1st, Poehlmann Bros. with Waco; 2nd, E. D. Smith with Minta; 3nr, E. G. Hill with Acto.

Seedlings Not in Commerce.

6 blooms white 1st, C. H Totty, bronze medal 6 pink C. H Totty, bronze medal 6 yellow—C. C. Pollworth Co., bronze medal. 6 red—E. D Smith & Co., bronze medal. Sweepstakes 6 blooms among the above seedlings—C. H. Totty, silver medal.

THE STAMFORD SHOW.

The Third Autumn Exhibition of the Westchester and Fairfield Horticultural Society was held in the Armory, Stamford, Conn., November 7th and 8th, and proved in every respect the finest exhibition ever held by the Society. The excellent attendance which far exceeded expectations shows the deep interest the public is taking in this young and energetic Society. Entries were heavy in the 98 classes in the schedule, competition very keen, and the judges fulfilled their duties in a most efficient and satisfactory manner, although they had no easy task. Chrysanthemums, which occupied the larger part of the exhibition, were of excellent quality and quite the equal to the standard in former years. Of the trained specimens, Adolph Lewisohn's "Black Hawk," a gigantic plant 14 feet in diameter caused quite a sensation. Other fine specimens were shown by Herbert J. Parks, Mrs. Albert Crane, Wm. Fisher, Chas. Mallory, W. W. Hercy, J. S. Downey and G. D. Barron. Single chrysanthemums and pompon varieties, now fast coming into public favor, were well staged.

Roses stood out prominently. Pink and White Killarney, Milady, American Beauty, Mrs. Geo. Shawyer and Mrs. Chas. Russell were never before shown to such advantage. Carnations were shown in excellent form and variety. Some excellent flowering and foliage groups occupied the center of the hall, artistic in their design, calling forth the admiration of all. Vegetables and fruit also added their part. The former brought out some fine displays where competition was very keen, Mrs. Albert Crane being a winner of two cups and several other prizes. Several excellent groups of orchids were staged. The gardeners' decorative art was again displayed in the basket and table decorations. In the former, P. W. Popp, gardener for H. Darlington, came first with a splendidly decorated basket of chrysanthemums and autumn foliage. Thomas Aitchison, gardener for Henry Seigel, was second with a pretty basket neatly arranged. Great interest was displayed in the table decorations with competition very keen. Thomas Aitchison, winner in this class, put up a wonderfully pretty table of Lady Hillingdon roses, which was greatly admired. A. Peterson and Thomas Ryan were second and third, respectively.

The interior decorations of the hall, which added in no small way to the general success of the exhibition, were kindly donated by Chas. T. W. Main, the local florist. Excellent music, combined with the artistic surroundings, added the finishing touch to the most successful exhibition in the history of the Society.

The trade exhibits included groups of evergreens from F. E. Conine Nursery Co., Stratford, Conn., chrysanthemums and carnations from Scott Bros., Elmsford, N. Y., flowering and foliage plants from A. N. Pierson, Cromwell, Conn., orchids from Geo. E.

Baldwin Co., Mamaroneck, N. Y., and floral decorations by Chas. T. W. Main, Stamford, Conn.

Chrysanthemum Plants.

Adolph Lewisohn, gard. J. Canning; Chas. Mallory, gard. W. J. Sealey; W. W. Heroy, gard. A. Wynne; J. S. Downey, gard. Thos. Ryan; Mrs. Albert Crane, gard. Alex. Geddis; Edw. Hoyt, gard. J. B. Roy; H. J. Parks, gard. A. L. Marshall; G. D. Barron, gard. Jas. Linane; and Miss G. Iselin, gard. Ewen McKenzie, were the principal winners in the plant classes.

Chrysanthemum Blooms.

Wm. Ziegler, Jr., gard. A. Bleschke; Miss C. A. Bliss, gard. C. T. Burns; Mrs. H. S. Bowen, gard. John Watts; Miss Cockcroft, gard. A. Paterson; Robt. Greenmert, Mrs. Albert Crane, M. I. Borg, gard. Owen A. Hunwick; Chas. Mallory, gard. Wm. Smith; Jos. Millbank, gard. Ed. Parker; Miss G. Iselin, were the winners of 1sts in the many classes for cut blooms. W. W. Heroy won a certificate of merit for best seedling not in commerce.

Carnations.

In this as in the preceding list, lack of space precludes mention of any but the winners of 1st prizes in all classes, although there were many 2nd awards where there was little to choose between exhibits as to priority. Mrs. F. A. Constable, gard. J. Stuart, W. W. Heroy, Miss C. A. Bliss, E. C. Benedict, gard. Robt. Allen, Mrs. Albert Crane, Mrs. C. S. Smith, gard. A. Pederson, R. Delafield, gard. Wm. Brock, Mrs. A. A. Anderson, gard. Robt. Williamson, were 1st in various carnation classes.

Roses.

In roses, the winners of 1st were Richard Delafield, J. J. Riker, gard. W. R. Fonkes and C. G. Wills, gard. Martin Glendon.

Flowering and Foliage Plants.

Group 75 sq. ft.—Mrs. A. A. Anderson, Kentia—J. B. Cobb. Phoenix—A. J. Parks. Orange trees—Mrs. Oliver Hoyt. Asparagus—W. H. Fisher. Six table plants—E. C. Benedict. Geraniums, Mrs. Albert Crane. Lorraine Begonias, Miss G. Iselin. Other begonias—W. W. Heroy.

Fruit and Vegetables.

Here was a very extensive list and the quality of exhibits was very high. The list of competitors was largely the same as recorded in the foregoing premium awards.

Miscellaneous.

Violets, A. Foster Higgins, gard. Paul Dwinger. Orchids, Hobart J. Parks; Mrs. Oliver Hoyt, Henry Siegel, gard. Thos. Aitchison. Ferns, Hobart J. Parks; Mrs. A. A. Anderson; J. B. Cobb, gard. A. A. Alms; Mrs. Oliver Hoyt and Mrs. C. A. Smith. Table decorations, Thos. Aitchison. Centre piece of chrysanthemums—H. J. Parks. Hardy flowers, H. Darlington, gard. P. W. Pope. Basket of flowers, H. Darlington. Largest chrysanthemum in the show—Miss G. Iselin.

THE TARRYTOWN (N. Y.) SHOW.

This was the 15th annual exhibition of the Tarrytown Horticultural Society, and it was well up to the well-known high standard of past years. The hall was handsomely decorated with greens and electric lights and was well filled with fine groups and tables of plants and flowers. The dinner table contest brought out five entries and they were among the most popular attractions.

Chrysanthemums.

The Archbold [illegible] for 12 chrysanthemum blooms, and the Hentz prizes for 25 blooms, were [illegible] 1st by Wm. Rockefeller, 2nd by Wm. Jamieson. The Redding [illegible] 6 blooms won 1st by E. B. [illegible], 2nd by Wm. Morris; 3rd by Mrs. C. A. [illegible], gard. Chas. Mallory. The H[illegible] collection of single blooms, A. Lewisohn, gard. J. Canning; E. Berolzheimer. The McCord cup for vase of 18 Miss [illegible], gard. Geo. Wittinger. The [illegible] cup for exhibit of chrysanthemums, roses and carnations, Wm. Rockefeller; 2nd, E. Berolzheimer. Osborn prizes for 36 blooms, W. Rockefeller, F. Potter, gard. W. C. Roberts. Rockefeller cup for 18 blooms, E. Berolzheimer; 2nd, W. B. Thompson, gard. R. M. Johnson. Hill prize for 3 blooms, W. Rockefeller, E. Berolzheimer. Pierson U-Bar prizes for 18 blooms, W. Rockefeller, Paul M. Warburg, gard. F. C. Chancellor. Cannon prizes for 12 blooms, Mrs. C. Victor, E. Oppenheimer, gard. A. MacDonald. Thompson prize for 12 blooms, F. Potter, P. M. Warburg. Darlington prize for 6 vases pompon, Chas. Mallory.



A Vegetable Exhibit

By H. Gant. Awarded the prize for the most creditable exhibit at the Glen Cove Show.

Roses.

John J. Riker, gard. Wm. Fowkes, won the Speyer cup for Killarney and the Lord & Burnham gold medal for 18 roses.



Chrysanthemum Mrs. Turner. Winner of first prize at Glen Cove Show. Grown by J. Macdonald.

Geo. G. Mason, gard. D. S. Miller, the Osborn prize for 12 roses one variety, the Stillman prize for Richmond, and the Langle prize for White Killarney; Thos. Aitchison, the Sc[illegible] and the Warburg prize for centrepiece; 2nd prizes in the foregoing were awarded to F. Potter, Prof. H. F. Osborn, gard. Wm. Ritchie, and David S. Miller. For best vase of 25 roses, one variety, F. R. Pierson won with a parallel exhibit of Killarney Queen, and for 6 blooms of any new rose not in commerce he won with Killarney Brilliant. F. W. Vanderbilt gard. H. J. Allen, was winner in the American Beauty class.

Carnations.

Specials were offered by A. Lewisohn, Mrs. J. B. Trevor, H. Darlington and R. C. Clowry, which were won, 1st by W. Rockefeller, G. G. Mason, Mrs. H. S. Bowen and G. G. Mason, respectively.

Miscellaneous.

Mallory prizes for table of decorative plants, W. B. Thompson, Joseph Eastman, gard. Robt. Angus. Johnson prizes for Lorraine begonias, W. B. Thompson, E. Berolzheimer. Hill prize for box of vegetables, Miss Blanche Potter. W. E. Marshall & Co. prizes for vegetables, Miss Potter, M. C. Hermann, gard. Jas. Stevens. Peter Henderson & Co. prize for vegetables, H. E. Rogers, gard. C. L. Fisher, E. L. Coster, gard. Edw. Kane. Burnett Bros. prize for vegetables, M. C. Hermann. Vaughan's Seed Store prize for chrysanthemum plants, Miss Blanche Potter, W. B. Thompson. Mrs. Stuyvesant Fish cup for dinner table decoration, Wm. Brock; 2nd, Thos. Aitchison; 3rd, W. G. Ellis. Dula prize for bridal bouquet, A. F. Wood, Theo. H. Wilde. Group of palms, flowering and foliage plants, Joseph Eastman. Six ferns for table decoration, Theo. Trevillian.

There were many more classes in all sections than are above enumerated, the winners being generally the same, but we have not space for all. Special awards were given as follows: F. R. Pierson Co., certificate of merit for exhibit of palms, ferns, roses, etc.; F. A. Vanderlip, honorable mention for specimen orange trees; A. L. Gifford, honorable mention for hellebores and gardenias; Elmsford Nurseries, certificate of merit for display of single chrysanthemums; A. N. Pierson, cultural certificate for roses and single chrysanthemums.

AMERICAN INSTITUTE SHOW.

The 82nd Annual Chrysanthemum Exhibition of the American Institute of New York was held last week at the Engineering Building, New York City. It was one of the best shows ever given by the Institute and the new halls proved very well adapted for the purpose. The plant groups were well arranged and composed of exceptionally fine material. The premiums offered were, as usual, very liberal and the classes generally were well competed for. Max Schling's display of "made-up" work was a great centre of admiration. Conspicuous, also, in their attractiveness were the decorative groups from Julius Roehrs Company, and orchids from Lager & Hurrell.

The following list of awards has been considerably curtailed for lack of room, but it includes the main classes and covers the names of the more important exhibitors.

Chrysanthemum Blooms.

[illegible] H. Darlington [illegible] plants [illegible] Winners in private gardeners' classes [illegible] Alex Mackenzie, Glen Cove; J. P. Wild, Madison, N. J.; W. H. Waite, Yonkers; Frank Black, Oakland, N. J., and James Bell. In the "open to all" classes the principal winners were Wm. Vert, Port Washington; Alex Mackenzie, W. H. Waite, Walter Angus, Chapinville, Conn.; Frank Black, Oakland, N. J.; J. W. Everitt, Glen Cove; James Bell, R. E. Jones (Seabright), A. Macdonald (Yonkers), and Chas. H. Ro[illegible]

Chrysanthemum Plants.

Peter Duff, Orange, N. J., four 1sts; W. B. Thompson, Yonkers, one 1st, three 2nds; W. D. Robertson, Roslyn, L. I., one 1st; Jas. Bell, two 1sts, one 2nd; Max Schneider, one 2nd.

Miscellaneous.

[illegible] Roeh[illegible] Co. Group of [illegible] plants; A. J. Manda, Brooklyn, specimen

palm and specimen fern; Lager & Hurrell, collection of orchids. On roses, commercial growers: L. A. Noe, A. N. Pierson Co. and C. H. Totty divided the honors; private classes, W. H. Waite and H. J. Allen, Hyde Park. On carnations, commercial: Head's Bergenfield Nurseries; private, Abraham Wynne Robt. Jacobs and Max Schneider. On violets, Max Schneider and Thos. Bell, Fairfield, Conn. On begonias, W. B. Thompson and R. Hughes, Flushing.

Specials.

Many special awards were made, in which the foregoing and others participated. Among the more prominent were the following: W. H. Waite, vase 24 blooms; Thos. Bell, do.; P. W. Popp, do.; Wm. Vert, do.; J. W. Everitt, collection 12 varieties; Chas. H. Rice, seedling pompons and singles; Peter Duff, three awards for trained specimens; R. Vincent, Jr. & Sons Co., hardy chrysanthemums; J. W. Everitt, single chrysanthemums; W. Angus, do.; A. J. Manda, specimen Boston fern; Robt. Bottomley, anemone varieties; Head's Bergenfield Nurseries, hardy and pompons; J. P. Sorenson, Essex Falls, N. J., vase of chrysanthemums and foliage; A. N. Pierson Co., rose: Mrs. Geo. Shawyer, single and pompon chrysanthemums; C. H. Totty, four specials for collection 50 varieties, display of chrysanthemum plants and hardy seedlings and roses; Patten & Co., Tewksbury, Mass., certificate for carnation Princess Dagmar; Chas. Weber, Lynbrook, N. Y., certificate for carnation Laura Weber; Max Schling, certificate for display of floral baskets.

THE ROCHESTER SHOW.

The splash of falling water, the song of canary birds, the charm of music and the beauty and fragrance of myriads of flowers mingled in the annual show of Rochester flower lovers and growers which opened last week in Convention Hall. The great auditorium and the annex were transformed into a German formal garden. High, close-cropped hedges broken at regular intervals by tall evergreens and one or two arched gateways carved out of the solid wall of the hedge by the cunning hand of the florist decorator hid the displays from the visitor's eye as he first entered.

On the left as one passed through one of the green-arched gateways a vista of flowers and greenery closing in the distance with a great fountain and waterfall came into view. All around, the stately, snowy and golden, pink and crimson globes of giant chrysanthemums. At their base masses of greenery, and thousands of bright-hued flowers.

The high hedge-border was pierced by a long arbor passage at the south end of the main auditorium. Passing through this, the visitor came upon the fountain, with its waterfall and pool, water streaming first from the mouths of half a dozen lions' heads into a shallow basin, then rushing over the edge and falling with a continuous splash into the broad pool at the base. At times the waterfall was illumined with brilliant colors which play upon the water with fast-changing beauty.

Credit for the conception and execution of this unique show belongs to William Pitkin, Jr., a young Rochester landscape architect. The display was greatly helped by immense contributions from the Public Park Department. Full information as to the awards and the financial results have not yet been received.

The Fruit Show, now open at Horticultural Hall, Boston, is a splendid success. The displays are prodigious, the quality exceptionally high and the arrangement of the various exhibits is excellent. More about it next week.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met in New York City, Monday, November 10th, and pursuant to the resolution of the meeting of the Society held at Minneapolis, decided to hold the annual meeting for 1914 in conjunction with the New York Horticultural Society and New York Florists' Club show, which will be held in March, 1914, in the Grand Central Palace. The management has offered the sum of $2,500 for premiums to be used by the Rose Society. The Executive Committee has accepted this offer and the premium list will be prepared without delay so far as possible to secure the best results.

The Rules and Regulations governing Rose Test Gardens, which were presented at the last meeting and submitted for further examination, were carefully gone over, and passed as directed at the Minneapolis meeting. The Rose Test Gardens in view are at Arlington Heights, Washington, D. C., Cornell University, Ithaca, N. Y., and Minneapolis, Minn., Park System, and also at New Brunswick, N. J. The effort to secure the list of all roses originated in America, with their pedigrees, has met with much appreciation; this list will be properly arranged and published as far as received in the Annual Bulletin for 1913. Messrs. Robert Simpson and Robert Pyle are appointed to assist the Secretary in the work of preparing the Bulletin.

More dues for membership have been received this year than common. President Pierson submitted a report on affiliation of local societies holding June shows and a proposition for the distribution of the American Rose Society medals. Messrs. S. S. Pennock, Pyle and H. O. May gave their views bearing upon this effort as desirable to gain a country-wide interest in the work of the Rose Society.

BENJAMIN HAMMOND,
Secretary.

Beacon, N. Y.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall on Tuesday evening, November 18, at 8 o'clock. The lecturer of the evening will be James F. M. Farquhar on "Landscape Gardening From the Standpoint of a Practical Man." Numerous applications for membership will be presented. Nomination of officers for 1914 will be made. Many fine exhibits of plants and cut flowers are promised, and the meeting should prove one of the finest the club has yet held.

All members wishing to join the landscape gardening classes are asked to be at Horticultural Hall on Monday evening, November 17 at 7.30 o'clock, when the class will be organized. Lectures and other features in addition to the regular class work are being arranged for.

W. N. CRAIG, Secretary.

NEW YORK FLORISTS' CLUB.

Ladies Night, Monday evening, November 10, was the most successful and best attended affair in the history of the Club. Ladies in great numbers were present. The Club Room was not large enough to hold the crowd and the gentlemen were compelled to stand in the hall and anterooms. A delightfully pleasing program had been prepared and Messrs. Duggan, Wheeler and Guttman, the house and entertainment committee, deserve great credit for the complete arrangements made, the only regret being that all the ladies could not be accommodated at one sitting. The House Committee were assisted by George E. M. Stumpp. Joseph Fenrich entertained one of the overflow meetings of the men with an interesting talk on the "Future of the Cut Flower Business in New York." Mr. Fenrich's number showed that he had given the subject much careful thought, and undoubtedly would have done much good to his hearers, but their inattention to the fine points of his address was deplorable and much of Joe's 70—H. P. 6—cylinder pressure was simply wasted in trying to preserve order and some of his audience came near turning turtle in their efforts to the same end.

President Siebrecht was all smiles at the success of the evening. A particularly gratifying feature was the willing acquiescence on the part of the members in the request to refrain from smoking out of deference to "ladies' night."

The Nominating Committee reported the following names for officers to be balloted for at the next meeting: President—Wm. H. Siebrecht, Sr., H. A. Bunyard, Wm. Duckham. Vice-president—C. W. Scott, H. Weston, Jno. A. Rassbach. Secretary—John Young, M. C. Ebel, J. H. Pepper. Treasurer—W. C. Rickards, Jr., Robert Koehne, Philip Kessler. Trustees—three to serve two years—Jos. A. Manda, C. H. Totty, W. R. Cobb, Wallace R. Pierson, Alex. E. Hogg, I. S. Hendrickson, A. L. Miller, F. H. Traendly, Jas. T. Scott.

The Committee on Awards reported on their visit to W. A. Manda's establishment, and the award of final certificates to Dahlia DuPont, Dahlia Gertrude, and Dahlia Bohemian Garnet. Wallace R. Pierson brought to the meeting an exhibit of the new chrysanthemum Indian Summer, which was greatly admired. The Committee on Awards, owing to the crush, were unable to judge exhibits. Taken all in all, last Monday night will go down in club history, as "One Big Night."

WORCESTER COUNTY, MASS., HORTICULTURAL SOCIETY.

This society held its annual meeting on November 5. Officers were elected as follows: President, Edward W. Breed, of Clinton; vice-presidents, Arthur J. Marble, Charles Greenwood and Herbert R. Kinney, of Worcester; secretary, Leonard C. Midgley, of Westboro; librarian, Miss Lucy M. Coulson, and treasurer, Burt W. Green-

wood. The three trustees appointed by a committee chosen to to fill positions of members who have died during the past year are William Anderson, of South Lancaster; H. H. Browning and F. J. Reed, of Shrewsbury.

In his report for the past year, Mr. Midgley made the recommendation that the society hold fewer shows, that they should be larger and remain open in the evening to allow the many people who are interested, but who are employed through the day, the opportunity of attending them.

The report of President Breed showed that during the past year four medals had been awarded; one to the Waban Rose Conservatory, for the Mrs. Charles Russell rose; one to A. N. Pierson, for the new Milady rose; one to the R. & J. Farquhar company of Boston for two new lilies, and one of the Hadwen medals to Marshall of Fitchburg for apples.

An animated discussion on the subject of Sunday shows was held, but no definite step was taken. The concensus of opinion was that Sunday exhibits would furnish a place of amusement and entertainment for numbers of people, but would be hard on the exhibitors themselves.



ANNUAL BANQUET OF NATIONAL ASSOCIATION OF GARDENERS, HOTEL ENDICOTT, NEW YORK.

See Last Week's Issue

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The evening of November 4, was Chrysanthemum Night at the Pittsburgh Florists' and Gardeners' Club. Exhibits and awards were as follows:

To Mr. Edwards, gardener for H. J. Heinz, a certificate of merit for the finest chrysanthemums ever shown before the Club.

To Bureau of Parks, Pittsburgh, for collection of chrysanthemums, the finest varieties being William Turner, Wood Mason, and Winifred, among the doubles, and in a fine collection of singles and pompons the new variety Oriole was conspicuous.

Messrs. Godwin, of Bridgeville, Pa., and Randolph & McClements of Pittsburgh were commended for vases of good commercial varieties.

To Carl Becherer, gardener for Dixmont Hospital, Dixmont, Pa., a cultural certificate for collection of double and single seedling chrysanthemums.

Mr. Becherer gave a very interesting demonstration of the method of pollination which he used in producing his fine seedlings. The Pittsburgh Cut Flower Co. showed good commercial varieties. The representative of this company said they attempted the growing of no fancy stock, but large quantities of the smaller varieties that could be easily purchased by the average man. They found Bonnaffon still the best yellow. They found a good demand for the singles and pompons which are being put in baskets with water containers by the retail shops, and keep for a long time. A great many go to the hospitals as presents.

Jno. W. Jones of Phipps Conservatories, said he found it an excellent idea to nick the stems of the large chrysanthemums in different places that they may take up more water and last longer.

A vote of congratulation for J. W. Jones, an ex-president of the Club, on his election to the presidency of the Botanical Society of Western Pennsylvania, was unanimously passed.

H. P. JOSLIN, Secretary.

LANCASTER COUNTY FLORISTS' CLUB.

Our first "ladies' night" was certainly a success. The rooms were handsomely decorated by Mr. Edgar, of the firm of B. F. Barr & Co. In conjunction with, and part of the decorating scheme, was an exhibition in which some very fine 'mums were shown by Rudulph Nagle, I. S. Landis, H. D. Rohrer, B. F. Barr Co., of Lancaster, M. J. Brinton of Christiana and Elmer Weaver of Ronks. Harry Weaver of Bird in Hand had a very nice vase of Silver-Pink Snapdragon. The Leo Niessen Co. showed a fine vase of carnation Gorgeous and Fire Flame and Sweetheart roses, all of which were much admired. The S. S. Pennock-Meehan Co. had a vase of Matchless carnation. Judging from the comments both these Philadelphia firms will be well repaid for their exhibits.

After spending about an hour over the exhibits, sports were indulged in, Mrs. A. M. Herr winning the prize for the greatest number of strikes and spares in bowling. There were about fifty ladies accompanied by their husbands and sweethearts, and they had full play on the bowling alleys, the billiard and pool tables and cards. A number of the fancy chrysanthemums were given as prizes for these games and quite a number of ladies were carrying huge armfuls on their way home. Lunch was served about ten and the affair closed at 11.30, pronounced a grand success. Mr. T. J. Nolan was the only visitor and he said he would have to be in Europe to miss another one if he knew of it in time.

A. M. HERR.

CONNECTICUT HORTICULTURAL SOCIETY.

Chrysanthemum night was observed on the 6th of November. Fine chrysanthemum blooms were exhibited by President John F. Huss; Alfred Cebelius, gardener for Rev. M. W. Jacobus, Hartford; W. S. Mason, gardener for the Pope estate, Farmington; Carl Peterson, West Hartford; Louis Chauvy, gardener for Walter L. Goodwin; A. N. Pierson, Cromwell; and T. B. Brown, Windsor. A vase of "William Turner," shown by Mr. Cebelius, created quite a sensation, some of the blooms measuring 23½ inches in circumference. Among the choicest chrysanthemums were Harry E. Converse, Mary Donnellan, Mrs. J. C. Kelley, Glenview, Dr. Enguchard and William Duckham.

Diplomas were awarded as follows:

First class certificates to Alfred Cebelius and A. N. Pierson, for pompons; Connecticut Agricultural College, for seedling carnations; Warren C. Mason, for pompons and singles; cultural certificates to Whitney Greenhouses, chrysanthemums; Connecticut Agricultural College, chrysanthemum sports; T. B. Brown, seedling chrysanthemums; certificates of merit to John F. Huss, chrysanthemums; Louis Chauvy, chrysanthemums; W. C. Mason, chrysanthemums; H. J. Thompson, honorable mention for potatoes, one weighing 2 lbs. 6 oz. and the other 2 lbs. 11 oz.

President Huss gave an account of his trip to the flower show of the Horticultural Society of New York, followed by Mr. Alexander Cumming, Jr., and Alfred Cebelius, who also attended the show. The attendance was the largest this fall, forty members being present. The next meeting will be held on November 25th.

ALFRED DIXON, Secretary.

Wethersfield, Conn.

MINNEAPOLIS FLORIST CLUB.

The Minneapolis Florist Club held its regular monthly meeting Tuesday, Nov. 4th, at Rice Brothers' store. Election of officers resulted as follows: W. D. Desmond was reelected president; Max Kaiser, vice-president; J. G. Taylor, secretary; A. S. Rice, treasurer; Theodore Wirth, C. N. Ruedlinger and R. A. Latham, trustees.

M. Dotsche, chairman bowling committee, read rules and regulations and

MIGNONETTE

Farquhar's Universal



Sow Now For Fall Crop

One of the finest varities for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Oz. $15.00, ¼ oz. $3.75
⅛ oz. $2.00, 1-16 oz. $1.00

Order early as our stock is limited

R. & J. Farquhar & Co.
Boston, Mass.

SPECIAL OFFER COUPON

KNOWING THAT
LILIUM HENRYI

is one of the best hardy Lilies under cultivation. we are offering as a special inducement for trial purposes

6 BULBS FOR $1.00 RETURN THIS COUPON WITH ORDER

Plant them now. Observe them next summer. Only one set to a customer. We reserve the right to withdraw this offer at any time.

JOHN LEWIS CHILDS, Flowerfield, L. I., N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE.

We grow large quantities of
Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List
R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

SPECIAL PRICES WITH LIBERAL EXTRAS
WE NEED ROOM—MAIL YOUR ORDER TODAY

	50	100	1000
2½ in. Chinese Primroses, varieties, mixed		$3.00	$25.00
3½ in. Chinese Primroses, in bud and bloom		7.00	65.00
2½ in. Primula obconica, fancy mixed		2.50	22.50
3½ in. Primula obconica, in bud and bloom		5.25	50.00
2½ in. Cinereria, choice mixed.		2.25	20.00
3½ in. " excellent stock.		5.00	45.00
3½ in. Snapdragon, white, pink and yellow		6.50	60.00
2½ in. Marguerite, white and yellow		2.50	22.50
2½ in. Marguerite, Mrs. Sander.		3.00	25.00
2 ¼in. Double Alyssum, for cut flowers		2.50	22.50
2¼ in. Asparagus Plumosus, nice plants		3.00	25.00
3 in. Asparagus Plumosus, nice plants		6.00	55.00
2½ in. Asparagus Sprengeri, excellent stock		2.50	22.50
2½ in. Smilax, large plants		2.25	20.00
4 in. Begonias, flowering, assorted kinds		10.00	90.00
4 in. Cyclamens, choice mixed.		10.00	95.00
3½ in. Violet Plants, Maria Louise and Lady Campbell		3.25	30.00
3½ in. Violet Plants, Princess of Wales		4.00	35.00
2¼ in. Geraniums, Nutt, Poitevine, Viaud, Grant, Buchner, Montmort, etc., etc		2.50	22.50
2¼ in. Heliotrope, white, light and dark blue		2.75	25.00
Callas, from pots		8.00	
Pansy Plants, choicest mixed			3.50
Field-Grown Vincas, variegated and green		1.50	10.00

15,000 Ferns, to close out, in assorted varieties, at 10c., 12½c. and 15c. each. Try some.

1,200 Scottii and Roosevelt Ferns, large and excellent stock, 20c. and 25c. each.
Araucaria excelsa, 60c., 75c. and $1.00, each.
And an abundance of other stock.
Correspondence solicited.

ALONZO J. BRYAN, Wholesale Florist
WASHINGTON NEW JERSEY

Plants of Celebrity

STOCKY, WELL-GROWN FERNS FOR DISHES.

Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.

ASPLENIUM NIDUS AVIS.

The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.

BEGONIAS LORRAINE AND CINCINNATI.

Finest Plants Ever Offered

2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.

Larger sizes at proportionate prices.

FIELD-GROWN ROSES FOR FORCING
Tausendschoen and all the Ramblers.

A. M. DAVENPORT
WATERTOWN, MASS.
Mention HORTICULTURE when writing

Narcissus Paper White Grandiflora

	100	1000
13 ctm. bulbs (1250 to case)	$1.25	$8.50
14 ctm. bulbs (1000 to case)	1.50	10.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4 & 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

THE E. G. HILL CO. RICHMOND, IND.

Are pleased to introduce to the trade, the lovely

NEW ROSE

OPHELIA

A "fancy" rose which will delight the ultimate buyer;
A "bread and butter" rose that will more than delight the producer;
This rose will be grown by thousands both indoors and out as soon as it becomes known.
The **Color** is warm salmon pink with golden shadings on the reverse of the petals;
It is a wonderful grower, quick in making a good, bushy plant.
Extremely free and quite continuous.
Does splendidly on Manetti.
Has the **Richmond** fragrance.
The loveliest rose of its color.

OWN ROOT, $30 per 100, $250 per 1000.
GRAFTED, 35 per 100, 300 per 1000.

READY MARCH 1.

Also KILLARNEY BRILLIANT, Same Date Same Price

THREE NEW 'MUMS

Grand Commercials that Every Grower Needs

CHIEFTAIN (Ivy Gay) like a rose-pink BONNAFFON, Oct. 20, scored 90 points before the Boston Committee and awarded certificate of the Mass. Horticultural Society on Nov. 1, after traveling from Richmond.
$12.00 per 100; $100.00 per 1000

ALICE SALOMON, a second early white, a fine incurved, stiff, slender stem, large, lightweight flower of great purity of color.
$12.00 per 100; $100.00 per 1000

SOLOMON'S GOLD (Yellow Salomon) a fine yellow sport of the above; an extremely valuable sort, especially considering the date, Oct 15.
$25.00 per 100

Three fine new Singles with wonderful texture:

MRS. WM. BUCKINGHAM, big, salmon-pink.
MENSA, big, pure white.
CEDDIE MASON, crimson scarlet, gold center.
All at $10.00 per 100

They sell on sight and are very lasting. May we book your orders?

THE E. G. HILL COMPANY

prizes that his committee had arranged for the coming season. The club donated $30 for prizes, this committee to arrange competition, the trade to be solicited for further offers.

Theo. Wirth has underway the formation of a club to go in a body to the Boston convention, a membership to be charged and so much weekly to be paid in and at the time of above event each member will have sufficient to defray his expenses of the trip. A membership of twenty is enrolled so far. All florists in the state are invited to join. This was the first club meeting Mr. Wirth has attended since his accident of two months ago. A luncheon was served at the close of the meeting and thoroughly enjoyed by all.

A dance will be given Monday evening, November 24th, at the Masonic Temple and the committee in charge under the chairmanship of Joe Oys are arranging for an event that will be an honor to the club.

C. F. Rice, secretary of the club the past year will be succeeded by J. G. Taylor. Mr. Rice leaves the 14th of November, accompanied by John R. Van Bochove of Kalamazoo, Mich., his former employer, on a moose hunting trip, which will consume about three weeks. C. F. RICE, Sec'y.

The fifty-ninth annual meeting of the Western New York Horticultural Society will be held in Rochester, N. Y., January 28-30, 1914. The program will be an unusually strong one, and the topics up-to-date.

JOHN HALL, Secretary-Treasurer.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses

FOR FALL PLANTING

Largest Assortment

THE NEW ENGLAND NURSERIES

Telephone Lexington 274 W. BEDFORD, MASS.

Mention HORTICULTURE when writing

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Mention HORTICULTURE when writing.

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

DAHLIAS

800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World.

J. K. ALEXANDER

"The Dahlia King"

East Bridgewater, - - Mass.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Exhibited at Cincinnati, Nov. 1st, by Elmer D. Smith & Co., Adrian, Mich., Smith's Ideal, white, Inc., Com. scale 88 points.

Exhibited at Chicago, Nov. 1st, by Elmer D. Smith & Co., Adrian, Mich., Garnet Gem, maroon, reflexed, Com. scale 85 points; exhibited by Mrs. J. A. Fraser, The Rogers Greenhouse, Rogers, Ark., Fraser's Golden Ball, yellow, Inc., Com. scale 79 points.

CHAS. W. JOHNSON, Sec.

DREER'S KENTIAS

Our stock of Kentias this seasan is even greater than in former seasons and of the same quality and good value that you are accustomed to receive from us

Kentia Belmoreana

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 10 inches high	$1.50	$10.00	$90.00
3 " 5 " 12 "	2.00	15.00	140.00
4 " 5 " 15 "	4.50	35.00	

	Each
5-inch pots, 6 to 7 leaves, 18 to 20 inches high	$0.75
6 " 6 " 24 "	1.00
6 " 6 to 7 " 28 to 30 "	1.50
7-inch tubs, 6 to 7 " 36 to 38 "	3.00

Kentia Forsteriana—Single Plants

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 12 inches high	$1.50	$10.00	$90.00
3 " 4 to 5 " 12 to 15 "	2.00	15.00	140.00
4 " 5 to 6 " 15 to 18 "	4.50	35.00	

	Each
5-inch pots, 5 to 6 leaves, 24 inches high	$0.75
6 " 6 " 28 to 30 "	1.00
6 " 6 " 34 to 36 "	1.50
7 " 6 to 7 " 40 "	2.50
7-inch tubs, 6 to 7 " 40 to 42 "	3.00
8 " 6 to 7 " 45 to 48 "	4.00
8 " 6 to 7 " 48 "	5.00
10 " 6 to 7 " 4½ to 5 ft. high	6.00
11 " 6 to 7 " 5 to 5½ "	8.00
10 " 6 to 7 " 5½ to 6 "	10.00
12 " 6 to 7 " 6½ to 7 "	15.00
14 " 6 to 7 " 7 "	20.00

Kentia Forsteriana—Made-up Plants

3-inch pots, 3 plants in a pot, 15 inches high, $2.00 per doz., $15.00 per 100.

	Each
7-inch tubs, 3 plants in a tub, 36 inches high	$2.50
7 " 3 " " 38 "	3.00
8 " 3 " " 40 to 42 "	4.00
8 " 3 " " 42 to 45 "	5.00
8 " 3 " " 4 to 4½ feet high	6.00
9 " 3 " " 4½ to 5 "	8.00
10 " 3 " " 5 to 5½ "	10.00
12 " 3 " " 5½ to 6 "	15.00
13 " 4 " " 6½ to 7 "	heavy 20.00
15 " 4 " " 7 "	" 25.00



Made-up Kentia

For a complete list of other Palms as well as other seasonable stock, see our CURRENT WHOLESALE LIST.

HENRY A. DREER, Inc., 714 CHESTNUT STREET PHILADELPHIA, PA.

The above prices are intended for the trade only.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid.
Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.
Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., **20c**; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING **Roses from 6-INCH pots**

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Montgomery Company, Inc., of Hadley, Mass., submit for registration, the Rose described below. Any person objecting to the use of the proposed name, or the registration of the rose, is requested to communicate with the Secretary at once. Failing to receive objections to the registration, the same will be made three weeks from this date.

Name, Hadley.

Description—This rose is a development of a strain of red forcing roses, including Liberty, Gen. MacArthur and Richmond. Color, deep velvet crimson, retaining its brilliancy at all seasons of the year. Flowers borne on long stiff stems, with abundant bronze green foliage. Unquestionably one of the most fragrant roses in existence, being exceeded, among forcing roses, only by American Beauty. It is a strong rapid grower and has undoubtedly proven itself an all-the-year-round forcing variety.

The Conard & Jones Company, of West Grove, Pa., submit for registration, the Cannas described below. Any person objecting to the registration or to the use of the proposed names, is requested to communicate with the Secretary at once. Failing to receive objections to the registration, the same will be made three weeks from this date.

Mrs. Woodrow Wilson—Color crimson pink, particularly clear and pleasing. Flowers are large with broad overlapping gracefully-rounded petals of great substance and durability. It is an early continuous and abundant bloomer. Habit is robust, but leaves do not hide the flowers; foliage is light green, prettily veined.

Golden Gate—The flowers open almost pure gold but soon become richly rayed with orange crimson and apricot, centering to the throat of deep carmine red. Foliage green.

Wintzer's Colossal—Without doubt, the largest flowered Canna to date, as the average flowers more than cover a man's hat. It is an improvement over all others in the orchid-flowering class. With its superior substance it seems to revel in the hot sunshine with impunity, and promises to give satisfaction in the most tropical sections. Color vivid scarlet that retains its brilliancy. Generous green foliage. Five feet high.

Jane Addams—True rich buttercup yellow (richer than Buttercup canna) with a suggestion of red in the throat The buds are dark maroon, and they blend artistically in color with the bright yellow blooms and soft green foliage. It has a strong erect habit of growth, growing to the height of 4½ feet.

San Diego—A bronze-leaved beauty with flowers perfectly formed and tastefully crimped. The blooms are a Chinese orange, or Persian yellow shade which harmonizes perfectly with the dark bronze foliage. On account of its sturdy growth and picturesque appearance this novelty is especially well adapted for growing as a specimen plant. Four feet high.

JOHN YOUNG, Secretary

New York City, N. Y.

CLUB AND SOCIETY NOTES.

The regular meeting of the Cincinnati Florist Society was held at the home of Fred Bartmeier on Monday evening, after which the members present enjoyed a very pleasant social evening.

At the October meeting of the Springfield (Ohio) Florists' Club, the following officers were elected: President, Roy McGregor; vice-president, John M. Good; secretary, Arthur C. Leedle; treasurer, Chas. W. Unglaub.

The State Florists' Association of Indiana met at Richmond on November 3, at the E. G. Hill greenhouses. It was decided to hold an exhibition in Indianapolis in November, 1914. The next meeting will be held at New Castle on December 2.

The Cleveland (Ohio) Lady Florists' Club organized October 27th and elected the following officers: President, Mrs. George W. Smith; vice-president, Mrs. Walter Priest; secretary, Miss Hester Getz; treasurer, Mrs. H. P. Knoble. About twenty members joined during the evening, and it is expected that at the next meeting there will be an enrollment of one hundred or more.

The Official Program of "Maryland Week," and the Annual Meetings and Exhibition of the Maryland Horticultural Society and allied organizations has been received. The dates are November 18 to 22, and the location the Fifth Regiment Armory, Baltimore. Among the interested workers in various official capacities we notice the names of R. L. Graham, George Morrison, I. H. Moss, E. A. Seidewitz, Chas. J. Bolgiano and others more or less familiar to our readers.

The regular meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., on Saturday evening, November 1. The chief business was centered on the fall show, held the previous week. Financially and otherwise it was a big success and the drawings at the door were a good bit in advance of the previous year. For the same show next year the society has already acquired two handsome cups for competition. Ed. Jenkins gave an interesting talk on his trip to the Madison, N. J., show.

The regular meeting of the North Shore Horticultural Society was held at Manchester, Mass., on Friday, November 7. A large attendance of members was on hand, it being the election of officers for the ensuing year. The result of the ballot was: President, John L. Chapman; vice-president, Frank Foster; secretary, Albert Sims; treasurer, John Jaffray; librarian, Robert A. Mitchell; executive committee—Alfred E. Parsons, William Till, Herbert Shaw, T. Harrison Stiles and Herman Sanford.

The discussion committee announced that Thos. J. Grey of Boston would be the speaker at the next meeting.

JOHN MAIR, Asst. Sec.

NEW INCORPORATIONS.

Providence, R. I.—Vega Valley Orchards, Inc., capital stock, $50,000. Incorporators, Frederick W. Tillinghast, Rush Sturges and Chauncey E Wheeler.

Obituary

Adam Rothar.

Adam Rothar, a retired florist, died on November 7 at his home in Bushwick avenue, Brooklyn, N. Y., aged 66 years.

John Brodrib.

John Brodrib, formerly in the florist business in Hartford, Conn., died on October 29, at Tolland, Mass. Mr. Brodrib was 53 years of age and a native of England. He leaves a widow, four sons and one daughter.

Albert Dirwanger.

Albert Dirwanger, for more than forty years a leading florist of Portland, Me., died at his home in that city on Sunday, Nov. 2, aged 83 years, 10 months. Death was caused by cerebral apoplexy.

Mr. Dirwanger was born in Bavaria, Germany,. He learned the trade of a florist in his native country at a time when a long and severe apprenticeship and a thorough course of instruction in every branch of the work was necessary. When a young man, after completing his apprenticeship, he came to America, which was then held out to all enterprising young Germans as a land of great promise. And he like a great many others of his race found it so indeed. He was fond of flowers and the flower business. This and his home formed his main object in life. Industrious and domestic in his tastes he lived a quiet life amidst congenial surroundings. His wife died about five years ago and he leaves his only child, Isabelle K. to mourn his loss. But, indeed, the greater part of Portland will feel a sense of bereavement for he was a sympathetic and kindly hearted gentleman and was universally beloved and respected. He was a brother of the late Joseph A. Dirwanger, also well-known in the florist trade of Portland for many years.

NEWS NOTES.

Anderson, Ind.—The greenhouses and contents of Williams & Matthews were completely destroyed by fire on November 1st. The loss is estimated at $20,000.

New York, N. Y.—Despite the snowbound news from Cleveland, Messrs. W. E. Marshall, J. Muller, of Julius Roehrs Co., Wallace R. Pierson and one or two other intrepid spirits started from New York, Tuesday evening, for that beleaguered city. The party would have been considerably larger were it not for the unpromising outlook.

The Boston Co-operative Flower Market, Inc., will hold a flower show in their rooms on Park street next spring. Three hundred dollars was appropriated for that purpose at the annual meeting, November 1. The directors for the ensuing year are as follows: John McFarland, president; Donald Carmichael, treasurer; William W. Tailby, secretary; Norris F. Comley, William H. Elliott, Robert Montgomery, L. E. Small, Charles Streifford and Henry Shedd.

LILIUM CANDIDUM

AND OTHER SEASONABLE BULBS

The Lilium Candidum we have on hand is now in cold storage, therefore in perfectly dormant and sound condition. Planted *now* in the open ground or in pots, they will make their Winter growth—be very handy for Decoration Day or June weddings. We offer the following sizes till sold:

	100	1000		100	1000
Lilium Candidum, 18-20 ctms., . .	$3.75	$35.00	**Lilium Candidum,** 20-22 ctms., . .	$4.25	$40.00

Lilium Candidum, 22-24 ctms.; $4.75 per 100, $45.00 per 1000

All cold storage Lilium Giganteum sold. Still have on hand, however, the following:

LILIUM SPECIOSUM ALBUM—Cold Storage, 8 to 9-in., 225 bulbs in a case, $7.50 per 100, $50.00 per 1000, $12.00 per case

SPIRAEA, or ASTILBE—(Cold Storage)

	100	1000		100	1000
Gladstone. Enormous spikes of pure white flowers	$6.00	$55.00	**Queen of Holland.** One of the finest; grand florist's variety, white . . .	$8.00	$75.00

CALLA AETHIOPICA—(Guernsey Grown)

These bulbs have been selected with great care and are sound and free from rot and all with eyes.

1¼ to 1½ inches in diameter, $5.50 per 100, $50.00 per 1000
1¾ to 2 inches in diameter, 7.00 per 100, 65.00 per 1000
2 to 2½ inches in diameter, $10.50 per 100, $100.00 per 1000
Monster Bulbs .....$16.00 per 100

ALL LESS 5 PER CENT. IF CASH ACCOMPANIES THE ORDER

ARTHUR T. BODDINGTON, *Seedsman* 342 West 14th St. NEW YORK CITY

GLORIOSA

Superba Grandiflora and Rothschildiana

FINE STRONG BULBS—3 AND 4 YEARS OLD

JANUARY DELIVERY

JULIUS ROEHRS CO., RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.

1 bale.....$3.80 10 bales, each..$2.40
5 bales, each... 3.60 25 bales, each.. 3.36

Car lots. Write for prices.

LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. sack.

J. H. SPRAGUE, Barnegat, N. J.

ORCHIDS

FRESH COLLECTED STOCK

Just Arrived

Catt. Gigas, August flowering type. Catt. Gigas Sanderiana Mammoth flowering type of April. Catt. Labiata Special collection in flowering season for dark flowers. Dormant leads, well leaved plants. Send for prices. Potted plants in sheath also ready.

Orders taken now for early spring growing stock.

FREEMAN ORCHID COMPANY

G. L. FREEMAN, Mgr.

FALL RIVER, MASS.

Mention HORTICULTURE when writing.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL. Summit N. J.

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl. bales; Selected Stock; neatly burlapped; 6 per cent. off Cash with order.

1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00

Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.

LOCK BOX 5

In writing to Advertisers kindly mention Horticulture

SEED TRADE

The Potato Prospect.

It is pretty widely understood that the potato crop in the country outside of Maine is considerably short of last year's by some millions of bushels. On the other hand it was known that Maine had raised the largest and finest crop ever produced in that State. As dealers in seed potatoes generally depend upon Maine for their supplies for the middle, eastern and southern states for early market, they felt confident of securing their usual quantities at reasonable figures. All this seems to have been changed, if information we have received is reliable. A long spell of wet weather, extending over several weeks, converted the fields into quagmires, and this was followed by a hard freeze, ruining a very large percentage of the crop which had not already been dug. Some estimates place the loss to the State as high as $500,000, but the full extent of the damage has not as yet developed, and it will doubtless be some weeks before the exact conditions are definitely known. This undoubtedly will mean an unusually high figure for selected seed stock, and those who have not already covered their requirements, should hasten to do so, but they would be wise in stipulating that the tubers should be free from rot.

Seed Beans.

Growers are beginning to make their final estimate of what they will deliver in the way of seed beans, and dealers generally will be keenly disappointed when actual deliveries are made. Weeks ago we predicted that the majority of both growers and dealers did not appreciate the extent of the shortage in beans, and such information as has reached us very recently, confirms this opinion. So far as we can ascertain, the only varieties that are now offered are the Red Valentines, Early Refugee and the Giant Stringless Green Pod, and nearly all of these are of the 1912 crop, as no grower is in a position to offer new beans of any variety. The greatest shortages will be felt on the wax-podded sorts and the Black Valentine, Late Refugee and Burpee's Stringless Green Pod. It is extremely difficult to secure offerings of any of these varieties at the present time, and as there is likely to be a keen demand from market gardeners and other users of seed beans, retailers will not be in a position to quote many of them at wholesale.

Canners' Convention.

We assume that most of the seedsmen and seed growers, who contemplate attending the Canners' Convention in Baltimore, February next, have made reservations for such rooms as they will require. If they have not, they should lose no time in doing so, as rooms will surely be at a premium before convention time. We are reliably informed that practically all of the leading hotels are now booked to capacity, the only exception being the Hotel Rennert, which still has a few rooms not taken. We are advised that the Baltimore canners are making great efforts to have this the banner convention up to this time, and it will probably be several years hence before it is eclipsed. The local organization has appointed committees to look after various phases of the convention, and an extended program of entertainments has been prepared, particular attention being given to entertaining the ladies.

A meeting of the Executive Committee of the National Canners' Association, and the Board of Directors of the Canning Machinery and Supplies Association, was held in Chicago on the 12th. The business discussed related to the forthcoming canners' convention at Baltimore. It promises to be a hummer.

"Future" Peas.

We have information to the effect that prices on future peas, both for canners and seedsmen will be somewhat lower than those of a year ago, although there will be no very sharp decline as conditions do not justify such action. The cost of producing seed peas now is very greatly in excess of what it was a few years ago. In fact it costs more to produce the seed now than it was sold for some five or six years back. While it is quite possible that prices may recede even further than those which will be asked for the coming season's crop, there is no possibility of their ever approaching the old level of even five years ago. There appears to be an abundance of seed stocks in the hands of growers, so far as peas are concerned, but seed stocks of beans are short, and dealers would do well, so we are advised, to get in their orders early. Incidentally we may add that our information is that prices on seed beans will show a marked advance over those of last year, as the farmers are the deciding factor today in practically all products of the soil, and they will not continue to grow beans at old prices. We have heard no figures mentioned, but merely that there will be a considerable advance.

Notes.

Petaluma, Cal.—W. J. Hickey has purchased the seed and flower business of M. Vonson.

Chicago, Ill.—At the seed stores work is slacking up and the coming week will practically see the close of the season. It is reported as a fairly satisfactory season and with the usual push, plans are already being outlined for another year.

Cincinnati, Ohio—The Rahe Seed Company, 113 East Court street, has reorganized with the following officers: President and secretary, Harry H. Peters; vice-president, Albert H. Peters; treasurer, William L. Miller. William J. Rahe has retired from the company.

The St. Louis County Florists' Club made up of growers only, held a large and interesting meeting on Wednesday night, Nov. 5th, at Nieman's Hall. President Vennemann presided over the meeting. R. Marshall lectured on "Economy in Greenhouse Heating" which proved to be a very interesting talk and discussion.

MICHELL'S FLOWER SEED AND BULBS

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

STOCK SEED

EARLY-FLOWERING NICE

	Tr. pkt.	Oz.
Beauty of Nice, delicate pink	$0.50	$2.00
Victoria, white	.50	2.00
Queen Alexandra, lavender	.50	2.00
Crimson King	.50	2.00
Abundance, carmine rose	.50	3.00
Mme. Rivoire, pure white	.50	3.00

FORCING GLADIOLUS

FINE PLUMP BULBS. READY NOW.

	100	1000
Bride, pure white	$0.65	$5.25

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market Street, PHILADELPHIA, PA.

Mention HORTICULTURE when writing

GIANT PANSIES—Sow Now

Special Florists' Mixture, $4.00 per oz., 50c. tr. pkt. Trimardeau Selections, mixed, $4.00 per oz., 50c. tr. pkt. Trimardeau, fine mixed varieties, $1.50 per oz., 25c. tr. pkt. Cassier's Giants Improved, splendid mixture, $5.00 per oz., 50c. tr. pkt. Trimardeau Sorts as: Bronze Colors, Golden Pure Yellow, Lord Beaconsfield, Purple, Pure White, Yellow with Eye, White with Eye, each variety separate, $2.00 per oz., 30c. tr. pkt. My catalogue has also other varieties.

O. V. ZANGEN, Seedsman, Hoboken, N. J.

CATALOGUES RECEIVED.

Sluis & Groot, Enkhuisen, Holland.—Advance Price List of Vegetable, Flower and Agricultural Seeds.

Henk Dirken Floral & Nursery Co., Inc., Houston, Tex.—General catalogue of bulbs, plants, trees, shrubs, etc., for season of 1913-14. Cover daintily adorned in colors.

J. J. Wilson Seed Co., 79 Orange street, Newark, N. J. — Bulbs, Hardy Herbaceous Perennial Plants, etc. A neat, illustrated catalogue, very creditable to this new seed and bulb house.

Charles Emmel & Rose Co., Boston,—Artistic Garden Accessories. A series of fine plates of vases, tables, pedestals, fountains, sun dials and other formal garden furniture of concrete.

Pape & Bergmann, Quedlinburg, Germany—Catalogue of plant novelties for 1913. Begonia hybrida flore pleno pendula forms a beautiful basket plant as shown in the illustration and looks like a winner.

Watkins & Simpson, London, England.—Special Offer of Flower Seeds, Season 1914, Wholesale. Also Special Offer of Vegetable Seeds and a separate list of Novelties and Specialties with sheet of illustrations in colors.

Head's Bergenfield Nurseries, Bergenfield, N. J.—Catalogue and Price List of Dahlias for 1914. This is a thoroughly good and dependable selection of the best from the great mass of varieties catalogued today. All classes are included.

We Specialize in
DANISH
Cabbage, Cauliflower and Root Seed
Grown by
Hjalmar Hartmann & Co., Copenhagen
NEW ZEALAND
Garden Peas
Grown by
F. Cooper Ltd., Wellington, N. Z
SWEDISH
Seed Grain
Grown by
The General Swedish Seed Co., Svaloef

These three concerns are the foremost in their line in their respective countries.

Ask for Price Lists and Information
LOECHNER & CO.
11 Warren Street, New York

We have all the leading
WINTER SWEET PEAS
at $2.00 per lb. Try a few of our
NEW WINTER ORCHID
SWEET PEA, at $4.00 per ½ oz.
Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.
Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.
ANT. C. ZVOLANEK
LOMPOC, CALIFORNIA

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

Place your order now for Ayres' Winter Flowering
SWEET PEA SEED
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.
Mention HORTICULTURE when writing.

REMOVAL NOTICE
We are Now Permanently Located At Our New Address
98 Chambers Street, N. Y.
Between Broadway and Church Street
Telephone 6138 Barclay
BURNETT BROS., - Seedsmen

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

FOTTLER FISKE RAWSON CO.,
LILIES BOSTON
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

MUSHROOMS
Barter's Peerless Brand
$6.50 100 lbs.
Our treatise how to succeed included
Wm. Elliott & Sons
42 Vesey St., New York
Mention HORTICULTURE when writing

NARCISSUS
PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS
1000 per case, $10.00
WEEBER & DON
Seed Merchants, 114 Chambers St., New York
Mention HORTICULTURE when writing

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

PAEONY ROOTS
Assorted in five colors, $10.00 per 100.
BLEEDING HEART ROOTS
$6.00 per 100.
EARLY WHITE ROMAN HYACINTHS
(12 to 15), $3.00 per 100, $28.00 per 1000.
FREESIA
Refracta Alba, ⅜ to ½-in., 60c. per 100, $4.00 per 1000.
LILIUM HARRISII
5 to 7, $3.50 per 100, $30.00 per 1000.
Spiraea, Lily of the Valley Clumps and Pips
Will arrive soon—prices on application.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 18) NEW YORK, N. Y.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

JOHN WILK
155 W. 33rd St., NEW YORK
Full Line of Bulbs for Fall Planting
Quality my first consideration

Plants, Bulbs & Seeds
It is our aim to please you at all times. Try us
S. S. SKIDELSKY & CO.
1218 Betz Building, Philadelphia, Pa.
Catalog for the asking

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS
Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1503
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

Alexandria, Ind.—M. E. Goode has purchased the flower business of H. A. Maxiner at 1092 Van Buren street.

Philadelphia, Pa.—The store of Henry C. Heilemann at 5613 Germantown avenue has been closed. The stock and fixtures were sold at auction, November 6th.

Stamford, Conn.—The Quality Flower Shop, formerly E. C. Haines & Co., held a formal opening on Thursday, Nov. 6, and there was a large attendance of the public.

STEAMER DEPARTURES

Allan.

Corinthian,	Montreal-London	Nov 16
Victorian,	Montreal-Liverp'l	Nov 18
Sicilian,	Montreal-London	Nov 23

American.

St Louis,	N Y-S'hampton	Nov 21
Philadelphia,	N. Y-S'h'pton	Nov 28

Atlantic Transport.

Minnetonka,	N. Y-London	Nov 22
Maryland,	N. Y-London	Nov 29

Cunard.

Mauretania,	N. Y-Liverpool	Nov. 19
Pannonia,	N. Y.-Mediter'n	Nov. 22
Ascania,	Montreal-Liverpool	Nov. 22

French Line.

Floride,	N. Y.-Havre	Nov 19
La Provence,	N. Y.-Havre	Nov. 19
Chicago,	N. Y.-Havre	Nov. 22

Hamburg-American.

Pres. Grant,	N. Y-Hamburg	Nov 19
Imperator,	N Y-Hamburg	Nov 22
Cleveland,	Boston-Hamburg	Nov 22

Holland-America.

Ryndam,	N Y-Rotterdam	Nov 18
Rotterdam,	N. Y-Rotterdam	Nov 25

Leyland.

Canadian,	Boston-Liverpool	Nov. 22
Bohemian,	Boston-Liverpool	Nov. 29

North German Lloyd.

Kr. Wilh'm II,	N. Y-Bremen	Nov 18
Barbarossa,	N. Y.-Bremen	Nov. 22
Gr. Kurfuerst,	N Y-Bremen	Nov 25

Red Star.

Vaderland,	N. Y.-Antwerp	Nov. 19
Kroonland,	N. Y.-Antwerp	Nov. 26

White Star.

Arabic,	Boston-Liverpool	Nov. 18
Cedric,	N. Y-Liverpool	Nov. 20
Cretic,	Boston-Mediter'n	Nov 22
Laurentic,	Montreal-Liverp'l	Nov 22
Baltic,	N Y-Liverpool	Nov. 27

New Brunswick, N. J.—Jack Clark has remodelled and redecorated his flower store and on November 1st had a public reopening. The store is a model in all its appointments.

Brookline, Mass.—F. E. Palmer is the center of quite a turmoil this week. He placed advertising posters for Mrs. Pankhurst in his flower store windows, and protests and threats of boycott from the anti-suffragists promptly followed. Fred. refuses to be intimidated and the suffragists are rallying to his support with their guns all loaded for bear, all of which is good advertising for Palmer.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN NEW YORK
3 & 5 Greene Ave. Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflow.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.

WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

The Miami Floral Company of Dayton, Ohio, had a grand public opening of their new and handsome establishment on Thursday, Nov. 6. The Dayton Daily News devoted the greater part of two pages to a description of the beauties of the place, one of the most elaborate and attractive in the country, with portraits of J. W. Rodgers, general manager and other officials of the company.

The advertisement of the Rosary Flower Company in this issue seems to be a point well taken. We find in the Florists' Directory no less than thirteen "Rosarys" and "Roserys" all in the same line of business in various parts of the country. It is not surprising that correspondents get them mixed up sometimes. No doubt they are all "own root" plants but it is our impression that the New York establishment was the first to use the name.

BE PREPARED
FOR THE
HOLIDAY RUSH
Lay in your stock of Ready-made Paper Pot Covers, Mats, Waterproof Crepe Paper, and Two-toned Scalloped-edge Crepe Paper.
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as Refereances
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

FLORISTS Everywhere Send Me Your Orders for BOSTON Delivery



First Class Stock ONLY and Prompt Service Guaranteed

HOFFMAN BOSTON

HOFFMAN BOSTON

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

WASHINGTON NOTES.

Postponement of the blanket order making sweeping express rate reductions has been announced by the Interstate Commerce Commission. The order was to have become effective December 1, but has been postponed until February 1, 1914, it is understood for the reason that the express companies showed they did not have sufficient time in which to get ready for the new schedules of rates.

The storekeepers are continuing their investigations regarding the competition put up by the street vendors and Messrs. Loose and Oehmler have been designated to look up the laws relating to street sales and to consult counsel in the matter. Their conclusions are to be submitted at another meeting. This sort of competition has long been a cause for complaint, but concerted action has not heretofore been had. Now that the dealers are in accord and have gotten together the District Commissioners are to be appealed to with a view to the enactment of suitable laws or regulations applying to street sales. Store men are subject to a license tax of $15 per annum and a personal tax on their stores, fixtures, merchandise, etc.; they have rent, light, clerk hire and other expenses, while the street men merely pay a very nominal license fee.

Visitors: George C. Watson, of Philadelphia, Pa.; C. B. Knickman, of McHutchison & Co., New York, and Joseph Goudy, representing H. A. Dreer, Philadelphia, Pa.

"THE ROSARY"

FLOWERCO.

24 East 34th St., New York

has no connection with any other firm, even though it bears a similar name.

J. H. TROY, - Manager

Mention HORTICULTURE when writing

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

LISTEN HERE

Thanksgiving Goods are now ripe. Get busy and pick them early. Elegant little flower receptacles of Delft Imperial Ware, Brownies, etc., Ferneries, Baskets and Vases. All New Goods. Sterling Novelties now offered for the First time. Tempting prices on our Special Gold Letters, Script and Block and Mother of Pearl.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

CHICAGO NOTES.

The Cleveland florists who visited Chicago the past week did some good work for their coming flower show, Nov. 13-15.

Elegant stock of Milady rose is now seen in the market. This flower is so perfect in form, so rich and velvety in texture, its color such a deep glowing red that when surrounded by its magnificent foliage it finds admirers at once.

The dance given by the Chicago Florists' Club Nov. 6, to the flower show visitors and their friends is reported to have been a happy occasion. It was held in the east room of the La Salle Hotel and a large number attended.

It is not hard to understand the increasing favor for the home-grown single violets. Their delicious fragrance when the boxes are opened as compared with that of the eastern ones after their long shipment is strongly in their favor.

A. T. Pyfer will represent the Chicago Carnation Co. with a large exhibit of carnations at the Cleveland Show. His collection at the Chicago Show included seven varieties, two not disseminated and did credit to his reputation as a "carnationist."

One of our wholesale salesmen aptly illustrated last week's business as like the lake whose border we touch. One day the waves rode high and carried all before it while the next day it was calm and scarcely a ripple to stir the calm which settled down on business.

Visitors—E. O. Orpet, Lake Forest, Ill.; Earl R. Mann, Richmond, Ind.; Mrs. Ida M. Latshaw, Libertyville, Ill.; E. G. Hill, Richmond, Ind.; H. B. Dorner, Urbana, Ill.; C. H. Totty, Madison, N. J.; Robt. Rahaley, Detroit, Mich.; Wm. Duckham, Madison N. J.; J. R. Fotheringham, Tarrytown, N. Y.; Frank Friedley, Cleveland, O.; L. A. Glaser, Dubuque, Ia.; Wm. Hartshorn, Joliet, Ill.; Louis J. Reuter, Westerly, R. I.; Elmer D. Smith, Adrian, Mich.; Wm. Vert, Port Washington, N. Y.; H. Philpott, Winnepeg, Man.; Robert M. Plumb and B. H. Huhy, Detroit, Mich.; George W. Smith, H. P. Knoble, H. Bate, Frank A. Findley, Geo. Bate and F. C. W. Brown, Cleveland, Ohio.



The Meyer Green
"SILKALINE"
IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Apply to Samples Sent Free

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

KOMADA BROS.
Manufacturers of all Kinds of
WIRE DESIGNS and FLORISTS' SUPPLIES
1008 Vine Street, - - PHILADELPHIA, PA.

Florists' Refrigerators
Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.
McCray Refrigerator Co.
669 Lake Street, Kendallville, Ind.
Mention Horticulture when you write.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

NEW FLOWER STORES.

Lewiston, Me.—Ernest Saunders, Lisbon street.

Chicago, Ill.—Lubliner & Trinz, 41 South Wabash avenue.

Albany, N. Y.—James Lascaris, State and South Pearl streets.

Newburyport, Mass.—J. J. Comley, Pleasant and Titcomb streets.

BUSINESS TROUBLES.

Frederick Southworth, florist, Lynn, Mass.; liabilities, $1917.01; assets, none. Petition in bankruptcy.

A MODEL ROSE ESTABLISHMENT.

One of the most progressive of the rose-growing concerns of greater Boston is the Montrose Greenhouses, of which Eber Holmes is superintendent. Each year sees substantial advances in equipment and a wider sphere of influence. During the past season a herd of forty high-grade cows has been added for the purpose of supplying the indispensable fertilizing materials, and they are housed in a barn with every modern method and device to insure comfort and cleanliness. It is a fine example of what to do and how to do it. Grading has been nearly completed for the erection of another rose house, 60x500 ft., which will be completed about the first of the new year. All the popular varieties of roses are doing well, more especially Mrs. Russell, which is easily the leader in the local demand. Most of the houses are now equipped with concrete benches.

BOXWOOD

15 cents per pound

Very choice quality, no waste. Place your order now, and we will make shipment when wanted. We have some on hand now, and can make delivery on receipt of your order.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

IF YOU want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE R THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 27			CHICAGO November 10			BUFFALO November 10			PITTSBURG November 10		
Am. Beauty, Fancy and Special	20.00	to	25.00	25.00	to	35.00	15.00	to	25.00	20.00	to	25.00
" " Extra	15.00	to	20.00	20.00	to	25.00	10.00	to	12.00	12.00	to	15.00
" " No. 1	10.00	to	15.00	15.00	to	20.00	7.00	to	10.00	8.00	to	10.00
" " Lower Grades	4.00	to	8.00	6.00	to	12.00	3.00	to	4.00	2.00	to	6.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	6.00	to	8.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	3.00	to	5.00	3.00	to	5.00	3.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	6.00	to	8.00	7.00	to	8.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	3.00	to	5.00	2.00	to	3.00	3.00	to	4.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00	to	10.00	6.00	to	8.00	7.00	to	8.00	6.00	to	10.00
" " " Ordinary	.....	to	....	3.00	to	5.00	3.00	to	5.00	3.00	to	4.00
Carnations, Fancy Grade	.....	to	2.50	3.00	to	4.00	.....	to	3.00	3.00	to	4.00
" Ordinary	.....	to	1.50	2.00	to	2.50	2.00	to	2.50	1.50	to	2.00
Cattleyas	.....	to	50.00	40.00	to	50.00	40.00	to	50.00	25.00	to	50.00
Lilies, Longiflorum	12.50	to	15.00	10.00	to	15.00	8.00	to	12.00	8.00	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Chrysanthmums	12.50	to	15.00	8.00	to	20.00	6.00	to	20.00	4.00	to	25.00
Violets	.35	to	.50	.75	to	1.00	.60	to	.75	.50	to	.75
Daises	.....	to	.....	1.00	to	1.50	.75	to	1.00	1.00	to	1.50
Gardenias	.....	to	.....	25.00	to	30.00	25.00	to	30.00	30.00	to	40.00
Adiantum	.....	to	1.00	1.00	to	1.25	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumous, Strings (100)	25.00	to	40.00	40.00	to	50.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	40.00	35.00	to	50.00	25.00	to	50.00

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

BUY BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

ATLANTA COMMISSION FLORIST CO.

Consignments Solicited

A READY MARKET FOR ANYTHING

ATLANTA GEORGIA

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.



BEAUTIES

Of Winter Quality, deeply rich colored buds, in quantity—all lengths.

SPECIAL	$25.00 per 100	EXTRA	$15.00 per 100
FANCY	20.00 per 100	FIRSTS	10.00 per 100

GARDENIAS, SPECIAL, $3.00 per doz.
FANCY, $4.00 per doz.
VALLEY, SPECIAL, $4.00 per 100; EXTRA, $3.00 per 100.
BOXWOOD, $7.50 per case of 50 lbs.

BUSINESS HOURS: 7.30 A.M. to 6.00 P.M.

Ribbons and Supplies Many new patterns in exclusive ribbons. If you did not receive one of our new catalogues, advise us at once and we will mail you a copy.

P M QUALITY

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

NEW YORK 117 West 28th St.
PHILADELPHIA 1608-1620 Ludlow St.
BALTIMORE Franklin & St. Paul Sts.
WASHINGTON 1216 H St. N. W.

Flower Market Reports

BOSTON Quiet, very! No signs yet of any decrease in the chrysanthemum cut, but the crest of the wave has undoubtedly been reached. In the meantime, carnations are "up against it" hard and are about the most unsalable thing on the market. Roses are faring better. They are shortening up in supply and if any active demand should materialize there would be a near famine. Violets have taken a jump and the demand is lively even at doubled prices, the singles selling for fifty per cent more than the doubles. Everything else on the list is in ample supply. Demand is decidedly dull—both local and shipping.

BUFFALO Weather conditions have been favorable for good business, although too mild for the keeping of stock, which has been good and moved fairly well on all lines except roses which have come in a little faster than they could be disposed of to good advantage. Of course, chrysanthemums are the feature of the market and as the early varieties are about over, the better keeping varieties are coming in and it is hoped that complaints will be fewer from now on. The rose demand has fallen on high-grade Sunburst, Milady and Shawyer. Some good Perles are seen, also Hillingdon, but the latter has fallen off in demand and Ward is much preferred. There are lilies and plenty of violets. Lily of the valley and carnations are coming on more each day.

CHICAGO There was more variation than usual in prices and demand during the past week. A few warm days brought in quantities of stock and then a sudden drop in temperature accompanied by a terrific gale reduced the supply but also diminished the number of buyers. The demand for roses has been remarkably good all the fall, which even the coming of the chrysanthemums did not greatly diminish. Their sales have kept steadily on while other flowers have had their ups and downs. It is generally conceded that there are enormous quantities of chrysanthemums to draw from this season and growers have been cutting freely to work off the stock with the result that prices are not up to those of previous years. The approach of Thanksgiving is expected to cause a reduction of the cut from now on. Carnations are competing with pompons now but the supply till last week has hardly been equal to the demand in spite of the quantity of pompons brought in. This week carnations are moving a little slower as pompons take their place in funeral work at prices which make them very attractive. The violet market continues firm and both singles and doubles improve as the season advances, with a steady gain in the quantity of single violets handled in this market. Demand for lilies is picking up. Sweet peas have appeared in limited quantities also snapdragon.

CINCINNATI The demand for stock is not able to make serious inroads into the bulk of the supply. Only here and there are flowers that clean up well. A large part does not move at all. Prices have slumped to a low point. The first blizzard and snow storm of the season interfered with the arrival of the Monday's shipment of New York double violets, the trains being snow-bound somewhere between Cleveland and Columbus. Chrysanthemums are far more plentiful than the market requires. Only those of the best quality sell and even they do not bring anything like a good price. The bulk of the offerings are the smaller sizes, and these enjoy the best call, but the stock is so large that prices, as before stated, are low. Roses are not as plentiful as they were, but are still easily sufficient. Carnations, too, are less abundant, but the call for them is weak. Everything else in plenty.

(Continued on page 683)

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	BOSTON November 13			ST. LOUIS November 10			PHILA. October 27		
Am. Beauty, Fancy and Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Extra	10.00	to	15.00	15.00	to	18.00	12.50	to	16.00
" " No. 1	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Lower Grades	2.00	to	4.00	3.00	to	5.00	4.00	to	6.00
Killarney, Extra	4.00	to	6.00	5.00	to	8.00	4.00	to	8.00
" Ordinary	1.00	to	4.00	2.00	to	4.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	5.00	to	8.00	4.00	to	8.00
" " Ordinary	1.00	to	4.00	3.00	to	4.00	1.00	to	3.00
Maryland, Ward, Taft, Sunburst, Extra	5.00	to	8.00	5.00	to	8.00	4.00	to	8.00
" " " " Ordinary	1.00	to	4.00	3.00	to	4.00	1.00	to	3.00
Carnations, Fancy Grade	1.50	to	2.00	3.00	to	4.00	2.00	to	3.00
" Ordinary	.50	to	1.00	2.00	to	2.50	1.00	to	1.50
Cattleyas	25.00	to	35.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	8.00	to	12.50
Lily of the Valley	1.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Chrysanthmums	6.00	to	15.00	10.00	to	25.00	3.00	to	20.00
Violets	.75	to	1.00	.35	to	.50	.40	to	.75
Daises	.....	to	1.00	.....	to	.....	.50	to	1.50
Gardenias	.....	to	25.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	12.00	12.50	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	20.00	to	30.00	15.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel., { 1593 / 5893 } Mad Sq 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 8 1913	First Half of Week beginning Nov. 10 1913
Cattleyas	15.00 to 35.00	20.00 to 25.00
Lilies, Longiflorum	4.00 to 5.00	3.00 to 4.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chrysanthemums	6.00 to 25.00	6.00 to 25.00
Violets	.40 to .60	.50 to .75
Daises	.90 to 1.00	.50 to 1.00
Snapdragon	... to	..... to .....
Gardenias	15.00 to 25.00	10.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	.. ... to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, [illegible]
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST NEW YORK CITY

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

In Writing Advertisers Kindly Mention HORTICULTURE.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 681)

NEW YORK As is generally known, the wholesale market conditions in this city have been unsatisfactory and disheartening for the well-wishers of the flower industry all through this fall. Not wishing to "harp constantly on the same tune," as has been sometimes charged against the trade paper reports on the New York market, we have tried from week to week to treat the situation as moderately as possible, hoping that the next week might furnish some good encouraging news. But this time we must cut loose from our conservative position and confess to the extreme demoralization existing all through the wholesale market district. So far as prices are concerned, everything has "gone to smash," and the truth is that the price quotations as given in our regular tables are practically no index of what is going on. Never in the history of the business has a worse condition prevailed than at present, and this applies to everything from cattleyas down, with the one exception of violets which are in demand at better prices than heretofore. Chrysanthemums are in overwhelming supply. We sincerely hope that this is the last pessimistic report we shall have to make this season.

WASHINGTON With the coming of the cooler weather business seems to be improving slightly, although considerable complaint is to be heard against the continued dullness of the market. The height of the chrysanthemum season has been nearly reached and the storemen will welcome the passing of the glut. It is said that beginning early in the week commission merchants and growers began holding back their supply of chrysanthemums for Saturday when an exceptionally heavy demand was expected due to the Georgetown-Virginia football game. Prices were nearly doubled in some instances and this caused the placing of numerous orders with out-of-town dealers for Friday and Saturday deliveries, which would have otherwise gone to local firms. Roses are in good supply and fair demand. Orchids continue to be somewhat scarce, although enough are to be had to fill all orders. Lily of the valley is moving well. Carnations are good.

ST. LOUIS The market has been crowded up considerably on chrysanthemums and business is not any too brisk. The commission men clean up almost daily on fancy stock. The only thing left over is second grade goods. Carnations are coming in better and they clean up daily. Roses are normal. Violets not as yet in plenty and only Californias in this market now. Other things hold their own and have a good demand at all times.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 8 1913	First Half of Week beginning Nov. 10 1913
American Beauty, Fancy and Special	12.00 to 20.00	10.00 to 15.00
" " Extra	10.00 to 12.00	8.00 to 10.00
" " No. 1	6.00 to 8.00	6.00 to 8.00
" " Lower Grades	1.00 to 3.00	1.00 to 3.00
Killarney, Extra	3.00 to 4.00	3.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 4.00	3.00 to 4.00
" " Ordinary	.50 to 2.00	.50 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 6.00	4.00 to 6.00
" " " " Ordinary	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy Grade	1.50 to 2.00	1.50 to 2.00
" Ordinary	.50 to 1.00	.50 to 1.00

PERSONAL.

Chas. McCreas won easily in his race for one of the city commissioners of the city of Newport, Ky.

Cincinnati visitors: Frank Farny, representing Mr. Rice & Co., Philadelphia; J. T. Heidegen of Aurora, Ind.

L. Merton Gage, secretary of the American Gladiolus Society, went to Bristol, Vermont, this week, where his aged father is very low.

Boston visitors: C. B. Weathered, New York; Stephen Green, representing H. Bayersdorfer & Co., Philadelphia, Pa.; Leonard Barron, editor of Garden Magazine, Garden City, N. Y.

William W. Tailby, who has been clerk of the Boston Co-operative Flower Market for some years and has been unanimously re-elected to that office, was presented with a purse of $100 at the banquet at the Quincy House, Boston, in recognition of his long and faithful service to the organization.

Mrs. F. J. Fillmore, Sr., of St. Louis, met with a painful accident last week when she fell backwards into the cellar and broke her collar bone and fractured her skull, from which she is slowly recovering. Mrs. Fillmore is well-known among the trade and will be missed in the store when artistic work is needed.

CITY AND TOWN PLANNING CONFERENCE.

One more important forward step in the movement towards the betterment of methods in the development of Massachusetts municipalities has been taken by the calling by His Excellency, Governor Foss, of the First Massachusetts City and Town Planning Conference, to be held in Boston, Tuesday and Wednesday, November 18 and 19. Various phases of the problems which confront those anxious for more definite looking ahead in city and town building will be informally discussed and able speakers will give addresses on diversified topics.

The details are in charge of special committees of the Homestead Commission and of the Boston Chamber of Commerce, which are co-operating in arranging the conference.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 59

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Lilium Candidum and Other Bulbs.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Wilk, 155 W. 33rd St., New York.
Bulbs for Fall Planting.
For page see List of Advertisers.

Weeber & Don, New York.
Mammoth Narcissus Bulbs.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CALLAS

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

CAMELLIAS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUMS STOCK PLANTS

Mrs. Jerome Jones, Smith's Advance, $4.00 per 100. Deer Floral Co., Deal, N. J.

CHRYSANTHEMUM STOCK PLANTS.

	Per 100
Chysolora	$4.50
Mrs. Charles Razer	4.50
Elsie Pepworth	4.00
Pacific Supreme	3.00
Alice Byron	3.00
Bonaffon (Yellow)	3.00
Robt. Holliday	2.50

CONRAD SCHULTZ, Westerly, R. I.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 659

FERNS—Continued

Frank Oechslin, Chicago, Ill.
Table Ferns
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

GLADIOLUS

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, N. Y.
Gladiolus America.

100,000 Giant Flowering Childsi and Silver Trophy Florists' Lt. Mixt., small sizes, $2.50 to $6.00 per 1000. Bulblets, 50c. per qt. All clean northern grown stock. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLORIOSA

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co.,
1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York. Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange.
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PINKS

HARDY PINKS—Large, lusty plants, $6.00 per 100. Cash. Deal Floral Co., Deal, N. J.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.
For page see List of Advertisers.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide.
New York City.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, strong plants, well berried, 4-in., $10.00 per 100; $80.00 per 1000. Cash. F. SOKOL, Worcester, Mass.

JERUSALEM CHERRIES—6-in. pots, full of berries, $20.00 per 100. Cash. DEAL FLORAL CO., Deal, N. J.

KENTIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
Cold Storage.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Lilium Henryi.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS—Continued

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y
For page see List of Advertisers.

MUSHROOM SPAWN

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers

Sander St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers

PALMS, ETC.

A. Leuthy & Co., Parkside St. Nurseries, Roslindale, Mass.
For page see List of Advertisers

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers

John Scott, Brooklyn, N. Y.
For page see List of Advertisers

PALMS, ETC.—Continued

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

J. M. Thorburn Co., 53 Barclay St., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special"
For page see List of Advertisers

POTASH

German Kali Works, Inc., 42 Broadway, New York.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

PRIVET

Franklin Davis Nursery Co., Baltimore, Md.
California Privet.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendallville, Ind.
For page see List of Advertisers

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa
For page see List of Advertisers

ROSES

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers

ROSES—Continued

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Hatcheri and Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

B. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., 11 Warren St., N. Y.
Danish, New Zealand and Swedish Vegetable Seeds
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers

J. Oliver Johnson, 1061 North Leavitt St., Wicker Park Station, Chicago, Ill.
Lawn Grass Seed
For page see List of Advertisers

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers

S. S. Skidelsky & Co., Philadelphia, Pa
For page see List of Advertisers

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

For List of Advertisers See Page 659

SILKALINE

John C. Meyer Thread Co., Lowell, Mass. Meyer's Green "Silkaline."
For page see List of Advertisers.

SPIREAS

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Alonzo J. Bryan, Washington, N. J.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind. Improved Venitlator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Wm. Sim, Cliftondale, Mass.

PRINCESS OF WALES VIOLETS. Strong, field-grown plants, $5.00 per 100. J. W. TULLOCH,
Danvers, Massachusetts

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Atlanta, Ga.

Atlanta Florist Co., Atlanta, Ga.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago—Continued

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

B. S. Slinn, Jr., 55 and 57 West 26th St., New York City.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

DAHLIAS.

J. K. Alexander, "The Dahlia King," East Bridgewater, Mass.
For page see List of Advertisers.

DECORATIVE, FLOWERING PLANTS AND FERNS.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE.

Robt Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Hoffman, Boston, Mass.
For page see List of Advertisers.

FLOWER SEEDS AND BULBS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW ROSES AND CHRYSANTHEMUMS.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

RETAIL FLORIST.

"The Rosary" Flower Co., 24 East 34th St., New York.
For page see List of Advertisers.

SIX SUPERB NEW "SPENCER" SWEET PEAS.

W. Atlee Burpee, Philadelphia, Pa.
For page see List of Advertisers.

SPECIAL OFFER COUPON.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

SPECIAL GREENHOUSE FERTILIZERS FOR FLORISTS AND GARDENERS.

Consumers Fertilizer Co., Long Acre Bldg., New York City.
For page see List of Advertisers.

WIRE DESIGNS AND FLORISTS' SUPPLIES.

Komada Bros., 1008 Vine St., Philadelphia, Pa.
For page see List of Advertisers.

SITUATIONS WANTED

SITUATION WANTED—By life experienced grower of cut flowers, Christmas, Easter and bedding plants. Age 27, married, best references. State wages and particulars. EDWARD J. MESSER, 34 Park St., Pittsfield, Mass.

FOR SALE

FOR SALE—An old-established flower and plant growing establishment, ten miles from Boston. Ten acres of land and six houses, of which one is new, 30 x 250. There are two dwelling houses on the place, also stable and out-buildings. Soil has fine record for roses and violets. Price low and terms reasonable. Owner is moving to another place. Address N., care HORTICULTURE, Boston.

FOR SALE—At a bargain, 8 acres of land, finest soil in Illinois; located on section line on northwest side of Chicago; city water, convenient to two R. R. stations, stone road to property; for particulars on this and other property suitable for greenhouse plants, address PETER PEARSON, 5732 Gunnison St., Chicago.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

During Recess

Oyster Roast at Washington, D. C.

The milkman was plodding along his beaten path long before the members of the Florists' Club of Washington, D. C., and their guests said "au revoir" and the lights at the Eagles' Hall, Sixth and E streets, N. W., were put out. The occasion was an oyster roast tendered to Adolph Gude, Fred H. Kramer and Theodore Diedrich, members of the club who recently returned from abroad. Good fellowship prevailed everywhere and all joined in the evening's pleasantries.

The evening began with the club's regular monthly meeting but business was cut short in favor of the "merry" part. Before the "roasting" began the members and guests whiled away the time talking shop. There are many matters at present demanding the attention of the florists, of which, perhaps, the question of street competition is the most important. Chairman Schmid, of the committee on arrangements, then gave the signal to begin operations, and an assault was made on the steaming bivalves. The announcement that the photographer was ready caused a halt in hostilities. After the gentlemen smoothed their hair and straightened their "westcoats," the big flash came. It was a great wonder to the HORTICULTURE correspondent how the men could keep quiet as long as they did for no sooner had they realized that their physiogonomies had been safely recorded on the camera plate than the real fun began. The playing of patriotic numbers caused considerable hilarity ending with a march around the big hall with President Otto Bauer as commander-in-chief. The musicians entered into the spirit of the affair and what they did not play was not worth listening to.

On the plea that he was not a speechmaker, Theodore Diedrich, following a hearty ovation, was excused in favor of Adolph Gude, who told of his trip through Germany, Switzerland, France and England in company with Fred H. Kramer and the other members of the brave band of Minute Men of America. He told of reviewing a section of the German army while in camp, of being received by the nobility, of visits to wonderful gardens, places and hofbraus, and of the exciting trip made by Mr. Kramer in a Zeppelin airship. Mr. Kramer told of the life in the big European cities; of how he and Mr. Gude almost flew from place to place, seeing everything worth looking at, and said that while Mr. Gude proved himself to be a prince of good fellows he had not in the least been contaminated by his association with royalty.

Peter Lattener changed his speech to songs of the Southland, rendering "Old Black Joe" and other melodies so well known south of the Mason and Dixon Line, his audience forming themselves into a huge choir. George Field begged off and declined to raise his voice in speech and Colonel Montague, Captain Zimmerman, Captain Costinett (fine, high-sounding titles) and a number of others spoke on various subjects and the balance of the evening and part of the following morning was turned over to a male quartet and the musicians from a local theatre, and a ventriloquist who brought forth many a laugh at the expense of a number of the florists.

In addition to all this entertainment some of the staid old members showed the youngsters how to dance the Virginia Reel, the Highland Fling, the Tango and that gruelling Grapevine Twist. Mrs. Clara Naecker, the nightingale friend of the florists, arrived late in the evening to fulfill a promise to sing to them. Although needing no introduction, she was greeted with a somewhat lengthy harangue and near-song, by a certain Northwest member.

Was the affair a success? Ask anyone who was present—they have not yet finished talking of the fun they had



OYSTER ROAST AT WASHINGTON, D. C.

Photograph by Bruns & Taylor, Washington, D. C.

A Detroit Outing.

The Detroit Florists' Club, 60 strong, made its twenty-fifth annual pilgrimage to Mt. Clemens, last Thursday, for the first time traveling in motor cars owned by the members. There were 14 machines in the procession.

Captained by Albert Pochelon, vice-president of the club, the florists left the Detroit Cut Flower Exchange, at 7.15 o'clock. Stops were made at greenhouses along the route, and the tourists assembled at J. F. Sullivan's greenhouse out Gratiot avenue.

In Mt. Clemens all the large growers were visited. Luncheon was served at Fred Breitmeyer's. It was the twenty-fifth luncheon Breitmeyer had served for the "pilgrims," and they presented him with a big mahogany chair in appreciation. Mr. Sullivan made a flowery speech of presentation. Supper was served at Van Boeslager's greenhouse, and a number of speeches were made there.

At Klagge's greenhouse the visitors saw 4,000 plants of the new carnation, "Philadelphia." Among those who made the pilgrimage were Philip Breitmeyer, Bruno Schroeter, Ed Beard, "Jerry" Stock and Charles Plumb, former presidents of the club.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
429 W. Lexington St., Baltimore, Md.
Directions on every package

Davidge's Special Phosphorus
$2.00 per 100 lbs.
A safe fertilizer for Flowers and Plants
HUDSON CARBON CO., BALLSTON SPA, N.Y.

PATENTS GRANTED.

1,074,785. Fertilizer. Albert R. Frank, Spandau, Germany, assignor to the American Cyanamid Company, Nashville, Tenn., a corporation of Maine.

1,074,808. Process for Making Fertilizer. Spencer B. Newberry and Harvey N. Barrett, Baybridge, Ohio.

1,074,828. Plant Protector. Charles A. Bigelow, Lakewood, N. Mex.

1,074,895. Greenhouse Construction. Roy I. Rapp, Bloomfield, N. J.

1,075,255. Tree Protector. Charles I. Helm, Phoenix, Ariz.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

FALL SPRAYING

Fruit trees, ornamental trees, evergreens, and all hardy stock susceptible to scale and other insects should be thoroughly sprayed before freezing weather sets in.

SCALINE will cleanse your trees and shrubs of San Jose, Oyster Shell and other hard scale, red spider, larvae of the aphis, grub of the locust borer, and other insect pests which secrete themselves in the crevices of the bark during the dormant season.

SCALINE is composed of a high grade of petroleum and the properties of the well known fungicide, **FUNGINE**; mixes readily without agitation; is used at a strength of one part to twenty parts water; containing no sediment can be applied through the finest spray nozzle, and requires no drenching of the plants, but simply misting them, to get effective results.

Gallon, $1.50; 10 gallons, $10; 50 gallons $37.50.

We answer inquiries

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — VERMINE

NIKOTIANA

British Distributors

BRITISH & AMERICAN FERTILIZING CO.

Liverpool, England.

Mention HORTICULTURE when writing

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

Green Flies and Black Flies Too Are Easy To Kill With

"TIP-TOP" BRAND

Tobacco Powder

For fumigating or dusting. $4.00 per bag 100 lbs. Write for free samples. Money with order.

Interstate Tobacco Co., Inc.

1397-1399 Ave. A, NEW YORK

Money refunded if not satisfied. Beware of imitations. Territory open for live Jobbers. Write for prices

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

When Writing to Advertisers Please Mention Horticulture

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Osage, Iowa—Walter S. Hall, additions.

Gettysburg, Pa.—A. F. Coulson, one house.

Lincoln, Me.—George Marston, one house.

Greystone, R. I.—Jonas Brook, house 21 x 50.

Dighton, Mass.—J. S. Place, house 40 x 150.

Humboldt, Iowa—J. H. Rine, Jr., one house.

Mansfield, Ohio—Stuhldreher Bros., one house.

Chester, N. Y.—Bernard H. Cullen, two houses.

Oakwood, Mo.—Gibney Bros., vegetable house.

New Haven, Conn.—Joseph J. Sokol, one house.

Mexico, Mo.—C. C. Wonneman, No. Jackson street.

Long Meadow, R. I.—Wm. C. Pratt & Son, house 41 x 100.

Greenville, Tex.—E. D. Barlow, additions and alterations.

Fort Collins, Colo.—Espelin & Warren, greenhouse 16 x 50.

Durand, Mich.—Adolph Bohr, Marquette street, one house.

South Bend, Ind.—Elmer Noy, Wide View Nursery, one house.

Arlington, Neb.—Ed. Woerner, Sixth street, greenhouse 20 x 50.

Arden, Pa.—Washington County Home, Lord & Burnham house.

Lincoln, Ill.—Otto Heimbreiker, 10th street, additions and alterations.

Fremont, Neb.—Andreason Bros., Fremont Greenhouses, one house.

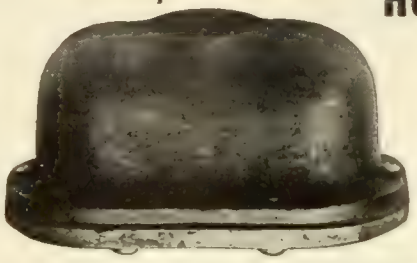
Hutchinson, Kan.—Walter H. Underwood, Eleventh avenue, W., additions.

Bridgeport, Ct.—Frank C. Foehrenbach, 124 Cleveland avenue, one house.

Barnard, N. Y.—William Keene & Sons, two Lord & Burnham houses, 30 x 134.

Mt. Mary's, Ohio—Henry J. Vander Horst, South Webb street, addition 12 x 102.

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. Price $2.00 each, charges paid.

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y.
Makers of King Iron Frame Greenhouses

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$120.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	58.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

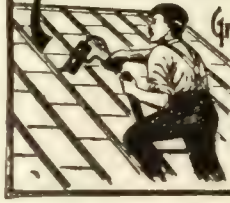
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N. Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty Lasts longer than putty. Easy to apply.

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.

Please mention Horticulture when writing.

Dreer's Peerless Glazing Points
For Greenhouses



Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c postpaid. Samples free.
HENRY A DREER, 714 Chestnut Street, Philadelphia.

PATENTS
Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

FOR SALE
Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.
ROBT. ROSS JONES, Harrisburg, Pa.
Mention HORTICULTURE when writing

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass.
For particulars address
John G. Esler, Sec'y Saddle River, N. J.



Two 40 ft. Iron Frame Houses, 316 ft. long; they belong to Charles H. Metcalf, Newton, Mass.

The Building Business and the Business of Building

A FEW nights ago, at the New York Florist Club meeting, I overheard a conversation that was so full of plain common sense facts that I am going to pass along the conversation to you.

Two growers were talking—two of the most successful rose growers in the business.

One remarked: "Never has our stock looked quite so good or as promising." The other replied: "Well, you are not doing any of your own building this year, as usual, and as a result you have been able to give all your time and attention to growing. Long ago I made up my mind that I could not afford to do my own greenhouse building and expect to keep on building my business as it should be built.

"I let the greenhouse builders build all my houses, and I keep busy building my business."

The point we want to make of course is: If these seasoned men in the business can't afford to do their own building, then how can you?

Let's you and I get together and talk the proposition over. If anybody can build economically for you, we can.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

Mention HORTICULTURE when writing

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

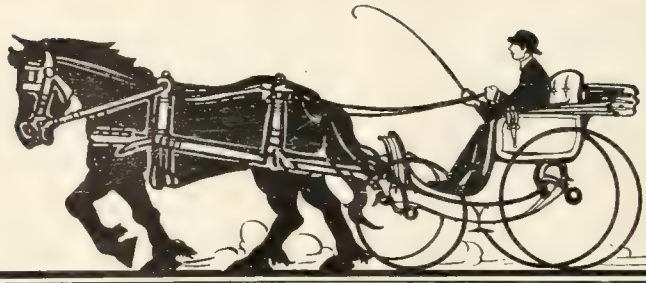
Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Gigs and Greenhouses

YOU can put a silver-plated harness on a draft horse and hitch him up to a stylish gig—*but still he is a draft horse.*

Just a big heavy dust scuffing draft horse.

By the same token, putting curved eaves on the usual iron frame greenhouse does not change it into a U-Bar Greenhouse. It's still the same heavy iron frame construction.

The only way to have a light stepping, quick moving, pleasant driving carriage horse, is to buy that kind of a horse.

The only way to have a U-Bar house with all its lightness, attractiveness, and durability, is to buy a U-Bar constructed house.

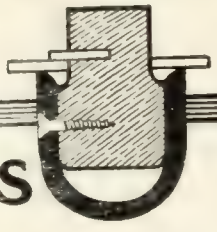
What a thing *looks like,* is one thing.

What that thing *is like,* is quite another.

Other curved eave houses may *look* like the U-Bar, but that's the *only way* they are like it.

Send for catalog. Or send for us. Or both.





U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. NOVEMBER 22, 1913 No. 21



CHRYSANTHEMUM DISPLAY AT GARFIELD PARK CONSERVATORY, CHICAGO, ILL.

Centre Bed 75 Feet Long

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

GRAND SPRING EXHIBITION

Under the auspices of the Horticultural Society of New York and the New York Florists' Club

$12,500 in Premiums

NEW YORK

March 21st to 28th, 1914

Are you preparing to exhibit?

Have you received the preliminary schedule covering plants? If not write for a copy without delay. Cut flower schedules ready January 1st.

JOHN YOUNG, Secretary

Telephone 7362 Madison Square. 53 West 28th Street, New York.

In Writing Kindly Mention HORTICULTURE.

At the Cleveland Show, Nov. 13

We Made 19 Entries of Carnations and were Awarded

14 FIRSTS	Two of them being sweepstakes—
2 SECONDS	A vase of *Pocahontas*, and
1 THIRD	A vase of Assorted

Our Cuttings are Fine; a Big Lot Already in the Sand. They are CLEAN and PLUMP

Let Us Book Your Order EARLY! May We Book You NOW?

White Wonder, White Enchantress, White Perfection, Enchantress, Rosepink, Mrs. Ward, Rosette, Beacon, Bonfire, Scarlet Glow
$3 per 100 $25 per 1000

Gloriosa, **$4 per 100; $25 per 1000**

Commodore, Herald, Ench. Supreme, Benora, Pocahontas, **$6 per 100; $50 per 1000**

Yellow Prince, **$10 per 100; $80 per 1000**

Matchless, Champion, **$12 per 100; $100 per 1000**

THE E. G. HILL COMPANY

RICHMOND, IND.

MATCHLESS

WINNER OF TWO GOLD MEDALS

DO NOT FAIL to get in your order early for MATCHLESS, the NEW COMMERCIAL WHITE CARNATION. Superior in size, fragrance and keeping qualities.
A non-bursting, very prolific and continuous bloomer.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY. (All stock sold to Feb. 1)

PRICE FOR ROOTED CUTTINGS: $12.00 per 100; $100.00 per 1000

(ORIGINATORS)

COTTAGE GARDENS CO., Inc.

QUEENS, NEW YORK

In Writing Advertisers Kindly Mention HORTICULTURE.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO
Mention HORTICULTURE when writing

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.
Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....723
Albany Cut Flower Ex....714
Alexander, J. K.704
Allen, J. K.....714
Am. Importing Co. 711
Anderson, S. A..710
Aphine Mfg. Co..721
Aschmann, G....702
Ayres Co., S. Bryson 707
Badgley, Reidel & Mayer.....714
Baker Bros.....705
Balsley, Harry..722
Barrows & Son..696
Bayersdorfer, H. & Co. 711
Bay State Nurseries 704
Bloomingdale's, 708
Bobbink & Atkins 703
Boddington, A. T. 706
Bolgiano & Son, J. 707
Boston Florist Letter Co.....712
Breck, J. & Sons.707
Breck - Robinson Nurseries 703
Breitmeyer's, J. Sons 708
Brookland Gardens 695
Bryan, Alonzo J.702
Burnett Bros....707
Burpee, W. A. & Co. 707
California Florist 709
California Seed Growers' Asso.707

Page
Chicago Carnation Co.....712
Childs, John Lewis 702
Conard & Jones Co. 704
Consumers Fertilizer Co.....721
Cooke, Geo. H....710
Clarke's, D.Sons.708
Conine, F. E. Nursery Co....704
Cottage Gardens Co. 695
Cowee, W. J....712
Craig, Robt. Co.702
Dards 708
Davenport, A. M.702
Dawson, H. S...696
Detroit Flower Pot Co.....722
Dorner & Sons Co. 696
Dreer, H. A.703-722
Dunlop, John H.709
Dysart, R. J....712
Eastern Nurseries 696
Edwards Folding Box Co.....712
Elliott's, W.Sons.707
Eppstein, Julius.709
Ernest, W. H....722
Esler, J. G.....723
Eyres 710
Farquhar, R. & J. & Co.....702
Ford, W. P.....714
Ford, M. C.....714
Forrest, Frank H. 709
Fottler, Fiske, Rawson Co....707
Freeman Orchid Co. 705

Page
Framingham Nurseries 703
Froment, H. E..714
Galvin, Thos. F. 709-710
Gasser, J. M. Co.709
German Kali Works 720
Goodsell, P. H..703
Grey, T. J. Co..707
Gude Bros. Co..709
Hail Association.723
Hall & Robinson.709
Hart, Geo. B....715
Heacock, Jos....702
Heinecken, Otto.707
Henderson, A....702
Hess & Swoboda.708
Hews, A. H. & Co. 722
Hill, E. G. Co... 694-712
Holland Nurseries 704
Hilfinger Bros...722
Holm & Olson..708
Hudson Carbon Co. 721
Industry Moss & Peat Co.....705
Jacobs, S. & Sons 723
Johnson, J. Oliver 707
Johnston Bros...709
Jones, Robert Ross 722
Kasting, W. F. Co. 715
Kervan Co.....714
Keller, J. B.Sons.708
Keller, J. M. Co.696
Kelway & Son...706
King Construction Co.....722

Page
Komada Bros...711
Kramer, F. H....709
Kroeschell Bros.723
Kuebler, W. H..714
Lager & Hurrell.705
Lemon Oil Co...720
Leonard Seed Co.707
Leuthy, A. & Co.696
Loechner & Co..707
Lord & Burnham Co.....723
MacMulkin, E...709
May & Co., L. L.710
McCarthy, N. F. Co. 712
McConnell, Alex.708
McCray Refrigerator Co.....711
McHutchison & Co. 696
McKenna & Son, P. 709
McKenzie, John.696
McManus, Jas...714
Meyer, J. C. Thread Co.....711
Michell's Seed House 706
Michigan Cut Flower Ex.....712
Millang, Chas...714
Millang, Frank..714
Montreal Floral Exchange 714
Moore, Hentz & Nash 714
Murray, Samuel.708
National Nurseryman 703
N. E. Nurseries.704
Nicotine Mfg. Co.721
Niessen, Leo. Co.712
N. Y. Stable Manure Co.....721
Oechslin, Frank.695

Page
Ouwerkerk, P...704
Park Floral Co..708
Palmer, W. J. & Son 710
Parshelsky Bros.723
Penn the Florist.709
Pennock - Meehan Co. 713
Pierce Co., F. O.722
Pierson, A. N...696
Pierson, F. R.Co.710
Plant Food Co., 20th Century..721
Poehlmann Bros. Co. 712
Pollworth, C. C.708
Pratt, B. G. Co..721
Pulverized Manure Co. 721
Quaker City Machine Co. 723
Randall's Flower Shop 710
Reed & Keller..714
Reid, Edw.....715
Reinberg, Peter.712
Reuter's 710
Rice, M. Co.....709
Robinson Co., H. M 714
Roehrs, J. Co...705
Roland, Thomas.696
Rolker, A. & Sons 696-722
Rosery, The.....708
Sander & Son...705
Scott, John 696
Scott, Robt. & Son 724
Schling, Max....709
Schwake, Chas & Co. 695
Sheridan, W. F.714
Sharp, Partridge & Co.....723

Page
Siebrecht, Geo. C.714
Siggers & Siggers 722
Skidelsky, S. S. & Co.....707
Slinn, B. S.....715
Smith, P. J.....714
Smith & Co., E. D. 703
Smith, W.&T.Co.704
Smyth, Wm. J..708
Sprague, J. H...705
Stearns, A. T. Lumber Co....723
Stumpp, Geo. M.708
Totty, Chas. H..695
Thorburn, J. M. & Co.....707
Traendly & Schenck 714
Valentine, J. A..708
Van Assche, F..723
Vincent, R., Jr., & Sons Co.....702
Warts, For Sale.719
Ward, R. M. & Co. 696
Weber, F. C.....709
Weeber & Don..707
Welch Bros.....712
Whittier & Co., W. B. 703
Wilson, J. J. Seed Co.....706
Wilson, Robt. G.708
Wood Bros.....696
Woodrow & Marketos 715
Young, John.694-714
Young & Nugent.708
Zangen, O. V....707
Zinn, J. A.....709
Zvolanek, Ant. C.707

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 716, 717, 718, 719

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per case of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

RALPH M. WARD & CO.

THE LILY HOUSE

Not How Cheap But How Good

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

CYCLAMEN

Best strain in existence.

4 inch $25.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.
Bedding Plants and Roses

AZALEAS

Extra fine Plants of the Christmas and Easter Variety.
BOSTON FERNS, ARDISIAS
Send for prices.
JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St.
Tel. 2890 Bedford **BROOKLYN, N. Y.**

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Parkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 per 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Adiantums

In order to have a good cut of adiantums for the holidays new growth should be well along by this time. Be very careful and do not give beds too much water as this can be easily overdone at this season of the year. The surface soil should be allowed to become fairly dry before applying any water. It is a good plan to work the beds over each week which will tend to keep the soil in a sweet condition. When the fronds have made fairly good growth they will stand liquid feeding once a week. Where it is possible see that the adiantums have full sun from this out and do not fail to give ventilation whenever possible. Be careful that the atmosphere does not become dry, as all adiantums love plenty of atmospheric moisture. Keep it right by damping down the walks three times a day.

Cyclamen

There is no end to the work on a progressive plant and cut flower growing establishment all the year round, and especially at this time is the rush of getting everything into shape for the winter's work. Those who have made use of frames for the last two months for cyclamen must now get the plants indoors. The cyclamen does nicely in a house a little over 50 degrees at night, and the plants from now on should be kept moving. Additional greenhouse space will soon be at liberty as chrysanthemums are cut out. While the cyclamen will still do in frames for a few weeks, if well looked after and protected on severe nights, it is unwise to keep them out after the latter part of November. Give them a light position but not too sunny. Do not syringe overhead and it will pay to use the watering pot in lieu of the hose. Look over the watering as early in the day as possible as they should become dry by nightfall. Keep the house in fairly moist state by damping down the walks night and morning. Place the plants well up to the glass so they will be forced to grow stocky.

Lily of the Valley

Newly imported pips, soon to arrive, cannot be forced with any success before the beginning of the new year. The flowers could be had, but the spikes would come bare of foliage. For early forcing choose the Berlin pips, and the Hamburg pips for late forcing. Cold storage pips will have to be relied upon for the holiday supply. An assorting into several grades of the pips on their arrival is now necessary, and the storing away can go hand in hand with the unpacking. A cold frame outdoors now affords the best and most convenient place where they can remain until repacked for cold storage rooms, or taken out for forcing. If it is merely to be a supply for winter, then no other place is needed. In such a case the pips should be packed upright in boxes, with sand or soil between, under and over the bunches. This simplifies labor in bringing them in, especially when frost has solidified the entire contents of the frame.

Orchids

For some months now watering should be done early in the morning, and the amount of damping down of the floors will, of course, depend on the weather and the amount of fire heat being used. During sunless weather, watering should be done with greater caution, as the daylight is steadily declining now, and while some days are hot there are spells of dull weather. Most orchids will stand full sun now so let them have it in the fullest measure. Few orchids want a close, stuffy atmosphere, so ventilation should be given at all times when possible in greater or less quantity according to the outside conditions. With all orchids now in their winter quarters, some time must be given to the work of cleaning them, and any spare moments are well spent in this way. Temperatures should now be lowered in the several houses, as scientists tells us that plants make most of their growth at night.

Pot Roses for Easter

It is time now to lift or buy roses intended for Easter forcing. Just pot them in 5, 6 or 7-inch pots as they may require. If the roots are long and straggly, or in any way mutilated shorten them back. Use any good rose soil with some bone and wood ash mixed. Be sure to give them all good drainage and pot firmly. When they are potted give a thorough watering. It is a good plan not to prune too hard after lifting; just cut down to about 18 inches for the present as you can do the severe pruning when you start them up. Where the room is available it will be well to give the plants a week or two in a very cool house, after which they can be placed in some deep frame. Look them over once in a while as they should be kept moist at the roots. Plunge the pots up to the rims when placing in the frames, else they are liable to become broken by freezing. During mild weather expose them to full air as they should be kept cool until wanted for forcing.

Preparations for Another Season

The latter part of November might well be called the beginning of the winter season so it is well to look over your stock and see if you are short on palms or other decorative plants. Where such is the case lose no time in placing your order so they can be shipped before the real hard weather sets in. This little forethought will make it better for both buyer and seller.

Mr. Farrell's next notes will be on the following: Carnations; Poinsettias; Gardenias; Schizanthus; Veranda Boxes for Winter Effect; Verbenas.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communication should invariably be addressed to the office of HORTICULTURE.

Cleaning the Early Peach House

Soon after pruning the trees, have the house thoroughly washed down the same as we recommended for the early vinery. This applies to all fruit houses; it not only helps to exterminate pests but admits more light, which is something to be considered through the dull short days we usually experience when early fruit is in its first stages of growth. A coat of paint in addition will brighten things up and be a great and lasting benefit to the house. One coat of paint inside and outside during a year will double the "life" of any house. After cleaning the house cut away the trees from the trellis. It is impossible to make any kind of a job without the whole tree is cut away. Trying to tie the trees in with half the old tie remaining is poor workmanship. The trees should receive one or two sprayings before being put back on the trellis. If they have been clean through the past season give them one spraying as a preventive. Any that have been troubled with any kind of pests must be dealt with accordingly but whatever insecticides are used do not base the proportions on the trees that are growing outside as those that are forced under glass are more tender and due allowance must be made. Old trees that have quite some heavy wood in them at the base can be scrubbed with a stiff brush which will remove any bark that may be partly loose and make sure that there are no small cavities left untouched by the sprayer. Have all the cleaning done before renovating the border as some of the chemicals will penetrate the top soil and while they may not poison or kill the roots directly they are best removed, which will be done if the top dressing is applied after all cleaning is done. Trees of several years' fruiting will have a quantity of surface roots if a mulching of manure was given them during the past season. It is at this season of the year that the real benefit of mulching the trees will be visible. Do not try to remove all the mulch if it is filled with fibrous roots, nor rely on the fork to do all the work in connection with this; too many valuable roots will be broken by so doing. Rather get the hand and brush off all the loose material that will come easily leaving the rest to have a thin covering of soil. It frequently happens that the ball of a peach tree is a little higher than the rest of the border, which, although no good in itself, shows that there is a quantity of the right kind of roots just below the surface. Other trees that are not so fortunate can have the surface soil removed until some roots are bared and new soil added to replace it. A few brickbats broken small and [illegible] will be beneficial in keeping the soil open. Make the whole nicely firm with the big rammer.

Starting Pot-Vines

Pot vines that have had a rest can be started now. These early ones require a house to themselves to get the earliest and best out of them. Select a house that is easy to heat and one that gets all the sunlight possible. The heating pipes and benches should be so arranged that at least one pipe is underneath the pots and that the benches are deep enough to allow of a hot-bed being made up of sufficient depth to accommodate the pots in which the vines are growing. This hotbed system can be dispensed with for any that are grown in pots during the summer but for these early ones it is beneficial. There is a gentle, even heat there right from the start which helps the roots to move. Any excessive heat from this source will be injurious. While straw manure can be mixed in with leaves for this purpose I prefer only clean oak leaves. These will heat up themselves when they are watered through once. See that styptic has been used on all the cuts that were made through taking off the sublaterals. Plunge the pots to the rim in the leaves, and bend the canes in a semi-circle shape to retard some of the sap from the top buds. If this is not done probably there will be a few strong growths at the top of the cane at the expense of those lower. Try to get an even break all over the cane. Syringe the canes two or three times daily and shut up the house early enough to get warmed up well with sun heat. Maintain a night temperature of 40 to 45 degrees.

Forcing Rhubarb and Asparagus

Neither of these subjects are particular where they grow so long as they have some moisture and heat. Both will grow in the dark but asparagus is best given the light. A mild hotbed of half long stable manure and half leaves will be a big advantage to them. Should the manure be hot add more leaves. Pack the roots in as closely as they will go, working down some fine soil in between. Cover the asparagus over with two inches of rough leaf soil. Do not allow the roots to become dry and keep plenty of moisture in the atmosphere. Start them with a night temperature of 50 to 55 degrees; after growth has nicely started do not allow it to go below 55. Make the usual advance by day.

Prepare for Pot-Trees

Providing the pot-trees have had some frosts on them they can be started as soon as the house can be got ready for them. Have the house clean to receive them and also give the trees an additional spraying before they are admitted. To save room for a time the trees can be placed double thick until the flowers expand; the only drawback to this is some buds are sure to get rubbed off when being shifted around.

Protect the Outside Walls

Vineries or peach houses that are to be forced early and have not got a heating pipe close to the outside wall will often have the frost penetrate through, keeping the border cold. This can be remedied by packing leaves against the wall (outside) and covering them over with long straw manure to prevent their blowing away. Better have this job done before the leaves are used elsewhere.

One Day Earlier, Please

Thursday of next week being Thanksgiving Day, HORTICULTURE must go to press on Wednesday night. Correspondents and advertisers will please bear this in mind when sending in copy or instructions. Do not send electros by parcel post. Either express or special delivery mail are much more prompt.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communication should invariably be addressed to the office of HORTICULTURE.

Holiday Time

Once more the holidays are coming, and that means a good deal to our trade, as well as to other lines of business. Places doing retail work had better be well supplied with all the necessary materials from paper to the boxes that the fancy trade demands. Doubtless many growers will make the mistake so often made, and will try to hold the cut flowers back so as to get the benefit of the higher prices then paid. This is all right when it is well done, but should never be carried to any extreme. Never attempt to hold the cut blooms long enough to impair the quality of the same. Remember that all the cut flowers go to the retailer before they find their way into someone's home, and it may take two days or more to make the trip from the wholesale house to the home, and then they are expected to last there for a while, or at least ought to, for the home where poor flowers arrived will no doubt be without them for a while to come. Help to sell your own stock as well as do a good thing for the trade in general by always having your stock top-notch, the very best it is possible to produce.

Holding the Plants Back

This is another practise that must not be carried to any extreme or serious trouble may result, for when the plants are checked right in the midst of the season it will take something to start them again. It may be very well to retard the plants just a little to keep the buds from opening too rapidly, and thus hold them a day or two longer, but to reduce the temperature away down to hold the whole crop is a matter that none of us should attempt to have anything to do with. Four degrees less than the regular temperature is about as low as we would let any of our growing houses get, and we think it is about the limit. Should you wish to use the house for other plants than roses after the holidays are over then of course it will pay to run the plants for all that they are worth, running the house so as to get most out of it while it lasts, and letting it go when it is through.

Wood for Propagation

Now as soon as the rush is over the propagation of the coming season's plants will begin in earnest. Many growers will depend on the blind wood that the roses produce for the necessary material, but we find that it pays in the long run to set aside the required number of plants and pinch all the buds as soon as they appear, and then let the wood ripen enough to be used, and then cut it up as soon as possible. This will give good cuttings as a rule, cuttings that will root almost evenly and produce plants that will be very much the same grade. This is just what is wanted, for the more even the plants are in growth and size the better will they be to handle and grow to produce good results. With Beauties it is much the same. Surely you are not encouraging the flowering qualities of the plants by using blind wood to make cuttings from. We would not advise using the wood that bears buds for that is far too expensive. There is plenty of nice flowering wood on the plants that can be used and will answer the purpose very well.

The Fire in the Propagator

Do not wait until you are ready to put the cuttings into the sand before you start the fire in the boiler to heat the sand in which the cuttings are to be inserted. Have the sand warm two or three days at least before the cuttings are put in. This will give you a chance to see if the sand heats well, and if there are any places that run too cold to root the cuttings. This can be remedied before the cuttings are put in, and if delayed will prove very bothersome, to say the least. Have all in running order before you cut the wood for your cuttings, and you will have much better success than to attempt to save a little coal. A bench of cuttings is worth much more than a few shovels of coal; at least we find it so, and we run things accordingly.

Gardeners and Lockjaw (Tetanus)

Agricultural laborers and gardeners are very subject to infection by the bacilli of tetanus, because their work brings them into contact with the soil and especially soils containing organic manures in which the bacillus appears to go through one of the cycles of its existence. Greenhouse soils by their high manurial content and the heat and moisture in which they are environed are veritable hot beds of incubation for tetanus bacilli. As in the nature of things the greenhouse-man's hands must be, during working hours, contaminated to a greater or less extent by the soil and as he is very frequently using a knife or working among roses whose loving embraces are very liable to make "the red blood flow," it is a wonder that infection is not more common than it is. Fortunately our blood contains the requisite resistant qualities to oppose the inroads of this terrible disease, else few would escape. But once in a while a direful calamity occurs and some vigorous man is cut off in his prime. Such as a few years ago was the case with James Brydon of South Lancaster, Mass., than whom no brighter light ever illumined the gardening profession, and from time to time we see it recorded in our horticultural press where some man has died from lockjaw resulting from the scratch of a rose thorn or some other trivial wound which has opened the gates for this insidious foe. And the pity of it all is that a little timely cauterization or disinfectant would have prevented these sad deaths.

The object of this article is to bring home to all who read it the ever-present danger of infection by this dreadful disease, and more especially by means of slight scratches and bruises which quickly heal over, as herein lies the greater danger, the germ being avaerobic (can only grow where free oxygen is excluded) it is these little neglected wounds that should be opened and cleansed with some good antiseptic such as peroxide of hydrogen or a solution of carbolic acid. It may, and does seem like a lot of trouble to bother to disinfect every little scratch or bruise but if you once saw a person die of tetanus you would think it well worth while even if the chances of contracting the disease are somewhat remote.

Edwin Jenkins

Lenox, Mass.

HORTICULTURE

VOL. XVIII NOVEMBER 22, 1913 NO. 21

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.
Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:
One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:
Per inch, 30 inches to page..... $1.00
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Chrysanthemum Display at Garfield Park Conservatory, Chicago, Ill.
NOTES ON CULTURE OF FLORISTS' STOCK—Adiantums—Cyclamen—Lily of the Valley—Orchids—Pot Roses for Easter—Preparations for Another Season—*John J. Willis*..... 697
FRUIT AND VEGETABLES UNDER GLASS—Cleaning the Early Peach House—Starting Pot Vines—Forcing Rhubarb and Asparagus—Prepare for Pot-Trees—Protect the Outside Walls—*George H. Penson* 698
ROSE GROWING UNDER GLASS—Holiday Time—Holding the Plants Back—Wood for Propagation—The Fire in the Propagator—*Arthur C. Ruzicka*.... 699
GARDENERS AND LOCKJAW—*Edwin Jenkins*..... 699
THE EXHIBITIONS—Rochester Notes..... 701
Holyoke..... 715
DRACAENA ROTHIANA—Illustrated..... 701
CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston..... 704
Society of American Florists—St. Louis Florist Club 705
Rhode Island Horticultural Society—Lecture at Newport—Club and Society Notes..... 720
SEED TRADE—Walter Mott's Notes by the Way—New Corporations—Notes..... 706
OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 708
Flowers by Telegraph..... 709
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, Cincinnati, New York, St. Louis..... 713
Washington..... 715
OBITUARY—C. L. Hoag—William Galloway..... 722
MISCELLANEOUS:
A Hardy Salvia..... 705
Publications Received—Fires..... 706
News Notes.....709-715
Chicago Notes—Philadelphia Notes..... 710
Business Troubles..... 710
Personal..... 711
Washington Notes..... 715
Cover Illustration..... 715
To Destroy Caterpillar Rings..... 720
Greenhouses Building or Contemplated..... 722
A World Wide Business—Patents Granted..... 722

The big show plants

[illegible] chrysanthemum plants for which they [illegible] attractions at the fall exhibitions in New York and thereabouts. If this be true it will be a great loss to the spectacular side of these exhibitions. We hope to see solid inducements given to encourage them to continue the exercise of their marvellous ability in the growing of such truly wonderful plants, the equal of which have probably never been seen elsewhere, here or abroad. There was a time when the Boston shows excelled in this particular line but the old spirit of rivalry between skillful gardeners aided and abetted by equal ardour on the part of their employers, has apparently died out completely and it is now several years since anything exceptional in plant growing and training has been seen at the Boston exhibitions. Of course, it goes without saying that the premiums offered for such productions have no relation to the cost of growing them, and in many cases the first prize will hardly pay cost of transportation.

Two kinds of "shows"

In a recent letter, J. I. Donlan, recognized as a man of intelligence and taste in floral exhibition matters, writes, "Your remarks anent attractions at shows in your last issue were to the point. If we must have these lamentable ways of staging things let them be confined to one day to be known as Growers' Day, then have the materials given over to experts to arrange in the most attractive manner." We are not prepared to say that Mr. Donlan's suggestion is entirely practical but in principle it is in accord with what we have been preaching these many years. Our communication from Rochester relative to the great popular success of the show in that city, which appears in this issue, would seem to indicate that the enterprising florists and gardeners of that section have succeeded in solving the question of public support for floral exhibitions on exactly the plan we have been advocating. Pictures we have seen of the exhibition in Chicago, held at the same time, show the opposite extereme—a growers' show on time-honored lines simply. Being in a large degree a trade affair on account of the participation of the C. S. A., perhaps no other course was entirely feasible at Chicago on this occasion but we are not at all surprised to hear that the attendance of the public was very slim.

"Free seeds"

Our seed trade readers will be interested to know that in the estimates recently submitted to Congress it has been recommended that the distribution of ordinary vegetable and flower seeds be discontinued and that the part of the $300,000 heretofore devoted to this use be applied to some better purpose. If Congress sees fit to accept the recommendation, we are informed that it is the intention of the Department of Agriculture to give particular attention to the securing and distribution of new and valuable seeds and plants, including forage crop seeds, whose character and quality will be thoroughly known and tested; and pains will be taken in every instance to see that a sufficient supply is sent to make it worth while for the individual farmer to make an experiment. Apart from the very natural disapproval by the seed trade of the seed distribution as carried on in recent years, there is no question that from the most favoring standpoint it has been a superfluity and an unnecessary drain on the government purse. This collecting and giving away of seeds often of a grade far inferior to the stock sent out by reputable seedsmen has put the Department in a ridiculous light before the public and its discontinuance would be hailed with satisfaction by many other than the seed trade people. While on the subject we would say that the work of collecting and disseminating seeds and plants or experimental purposes, as conducted by the Office of Foreign Seed and Plant Introduction, of the Bureau of Plant Industry, appears to have been wisely conceived and well carried out.

THE ROCHESTER SHOW.

Rochester's Fourth Flower Show, which came to a close on Saturday, November 8th, will be remembered as one of the most successful which have been held, both in attendance and in the excellence of the exhibits. Although the correct figures of the attendance are not quite ready it is thought that in the neighborhood of 18,000 people paid admission to the hall in the five days the show was open and in no instance was anyone heard to remark but that the general plan and arrangement was superior to that of any previous exhibition held by the Rochester Florists' Association

Rochester's Flower Show differs from the general run of exhibitions in that no prizes or awards of any kind are offered, those having charge of affairs believing (and, the past successes have proved this to be a fact) that if you wish to interest the people in flowers to such an extent as to get them to pay their good money to go to a flower show, it is necessary that the flowers you are exhibiting should be placed there in an artistic manner in order that they may lose none of their beauty, and when this is done it seems to us that a flower show planned and arranged as we have it in Rochester can be made to pay for itself and possibly may show a slight profit. The latter, however, has not been our aim. The thing is to get the public interested in flowers so that more flowers will be used by the people and to this end we have eliminated the long and tiresome rows of tables of the conventional flower show with the exhibits crudely arranged thereon, and, in their stead, have placed a beautiful garden through which the people can wander at their leisure and while admiring may listen to the strains of sweet music.

The plan this year was drawn up by William Pitkin, Jr., a prominent landscape architect of this city, the garden effect being of early German design. The entire main hall was surrounded by a hedge of arborvitae about six feet high which acted as a background for the exhibits, the points where the walks intersected being connected by arches of the same material and the ceiling hung with garlands of wild smilax illuminated with special lighting fixtures. The entrance to the annex or new part of the hall was reached by a lofty archway directly in front of which was placed a large fountain—that, too, being of early German design—which was beautifully illuminated by electric lights. The ceiling of this part of the hall was hung with laurel roping which gave it a very striking appearance and at the rear of the fountain the Ladies' Auxiliary Florists' Association conducted a Tea Garden under the management of Mrs. Dunbar, which was a very successful undertaking and a great convenience to the people.

In the annex a new feature was added this year—namely, two dining rooms elegantly furnished in which were arranged elaborate table decorations under the supervision of Felix Albert. These rooms were the rendezvous of the lady visitors and created a great deal of interest and in the future exhibits of this kind will be given even more attention. The rest of this hall was devoted to the display by the Rochester Parks Department, a wonderful exhibit containing besides a vast amount of chrysanthemums, a collection of hardy fruiting shrubs of the North Temperate Zone, of which there were 170 species on exhibition, all to be found growing in the Rochester Parks. This collection was classified and arranged by Mr. Horsey under the direction of John Dunbar and great credit is due these gentlemen for this very fine display.

The main hall was occupied entirely by the private and commercial establishments. Among those exhibiting were: Mrs. Gilman H. Perkins, gard. Alex. Lothien; Hiram Sibley, gard. Etienne Berry; Mrs. W. A. Wadsworth of Geneseo, N. Y.; Mrs. G. D. B. Bonbright, gard. H. Watson; Mrs. W. D. Ellwanger; Mrs. W. S. Kimball, gard. Colin B. Ogston; Mrs. George R. Fuller; James Vick's Sons; Jacob Thomann & Sons; George B. Hart; Frank Bennett, Barnards, N. Y.; George J. Keller; F. R. Schlegel Sons; H. P. Neun; Crosman Bros.; Charles Suhr; A. N. Pierson, Inc., Cromwell, Conn.; Patten & Co., Tewksbury, Mass.; The Rhinebeck Violet Growers' Association; F. R. & P. M. Pierson, Scarborough, N. Y.; David Scott, Corfu, N. Y.; H. C. Salmon; George Crooke & Co.; Albert Rayton. Lord & Burnham Co., made an unique exhibit by placing at the end of the main hall a beautiful tablet in bas-relief acting as a terminal to the general scheme, the subject of which was symbolical of the flower show.

DRACAENA ROTHIANA.



One of W. A. Manda's favorite specialties and well entitled to a place among the very best decorative plants for the home, greenhouse or outside in summer. It stands the common conditions and usual neglect in a living room in a most nonchalant manner, seeming not to care about temperature or neglect in watering, being a rival for the tough old Aspidistra, which is commonly recognized as having more lives than a cat.

EXHIBITION NOTES.

The Rhode Island State Corn Show will be held in the Mathewson Street M. E. Church, Providence, R. I., on December 5 and 6.

We hear that the E. G. Hill Company carried off many honors at the big Cleveland Show, worthily won by the high quality of their sterling novelties in roses and carnations.

In our list of awards at the New York Horticultural Society's exhibition we did not get in the silver medal won by Robert Scott & Sons, Sharon Hills, Pa., for Killarney Brilliant. This rose is well described in its name and is regarded by good judges as destined to have a future as a florists' rose as brilliant as is its radiant color.

An attractive feature of the chrysanthemum show at Worcester, Mass., was a Japanese garden arranged by President E. W. Breed. The principal plant and flower exhibitors were L. C. Midgley, H. F. A. Lange, Denholm & McKay, Mrs. C. W. Wells, the Knowlton estate and Forbes & Forbes. There was an excellent display of apples.

FORCING SHRUBS AND PLANTS

Azalea indica. in variety
Azalea mollis in variety
Lilacs Roses

SHRUBS In Variety

Spiræas Helleborus
Lily-of-the-Valley

R. & J. Farquhar & Co.
BOSTON, MASS.

SPECIAL OFFER COUPON

KNOWING THAT
LILIUM HENRYI
is one of the best hardy Lilies under cultivation. we are offering as a special inducement for trial purposes

6 BULBS FOR $1.00 RETURN THIS COUPON WITH ORDER

Plant them now. Observe them next summer. Only one set to a customer. We reserve the right to withdraw this offer at any time.

JOHN LEWIS CHILDS, Flowerfield, L. I., N. Y.
In Writing Advertisers Kindly Mention HORTICULTURE.

We grow large quantities of
Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List
R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

SPECIAL PRICES WITH LIBERAL EXTRAS
WE NEED ROOM—MAIL YOUR ORDER TODAY

	30	100	1000
2½ in. Chinese Primroses, varieties, mixed		$3.00	$25.00
3½ in. Chinese Primroses, in bud and bloom		7.00	65.00
2½ in. Primula obconica, fancy mixed		2.50	22.50
3½ in. Primula obconica, in bud and bloom		5.25	50.00
2½ in. Cinereria, choice mixed.		2.25	20.00
3½ in. " excellent stock.		5.00	45.00
3½ in. Snapdragon, white, pink and yellow		6.50	60.00
2½ in. Marguerite, white and yellow		2.50	22.50
2½ in. Marguerite, Mrs. Sander.		3.00	25.00
2 ¼in. Double Alyssum, for cut flowers		2.50	22.50
2¼ in. Asparagus Plumosus, nice plants		3.00	25.00
3 in. Asparagus Plumosus, nice plants		6.00	55.00
2½ in. Asparagus Sprengeri, excellent stock		2.50	22.50
2½ in. Smilax, large plants		2.25	20.00
4 in. Begonias, flowering, assorted kinds		10.00	90.00
4 in. Cyclamens, choice mixed.		10.00	95.00
3½ in. Violet Plants, Maria Louise and Lady Campbell		3.25	30.00
3½ in. Violet Plants, Princess of Wales		4.00	35.00
2¼ in. Geraniums, Nutt, Poitevine, Viaud, Grant, Buchner, Montmort, etc., etc		2.50	22.50
2¼ in. Heliotrope, white, light and dark blue		2.75	25.00
Callas, from pots		8.00	
Pansy Plants, choicest mixed			3.50
Field-Grown Vincas, variegated and green		4.50	40.00

15,000 Ferns, to close out, in assorted varieties, at 10c., 12½c. and 15c., each. Try some.
1,200 Scottii and Roosevelt Ferns, large and excellent stock, 20c. and 25c., each.
Araucaria excelsa, 60c., 75c. and $1.00, each.
And an abundance of other stock.
Correspondence solicited.
ALONZO J. BRYAN, Wholesale Florist
WASHINGTON NEW JERSEY

Begonias for Xmas
Finest Plants Ever Offered

LORRAINE AND CINCINNATI.
2¼-in. pots, $15.00 per 100.
3 -in. pots, $20.00 per 100.
3½-in. pots, $25.00 per 100.
Larger sizes at proportionate prices.
STOCKY, WELL-GROWN FERNS FOR DISHES.
Pteris Cretica albo-lineata, P. Mayii, P. Victoria, P. adiantoides, Cyrtomium falcatum, C. Rochfordii, etc. $4.00 per 100.
ASPLENIUM NIDUS AVIS.
The popular Bird's Nest Fern. Fine young plants for growing on. 1-in. pots, $12.50 per 100.
FIELD-GROWN ROSES FOR FORCING
Tausendschoen and all the Ramblers.
A. M. DAVENPORT
WATERTOWN, MASS.
Mention HORTICULTURE when writing

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA
5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.
Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

DREER'S KENTIAS

Our stock of Kentias this seasan is even greater than in former seasons and of the same quality and good value that you are accustomed to receive from us

Kentia Belmoreana

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 10 inches high	$1.50	$10.00	$90.00
3 " 5 " 12 "	2.00	15.00	140.00
4 " 5 " 15 "	4.50	35.00	

	Each
5-inch pots, 6 to 7 leaves, 18 to 20 inches high	$0.75
6 " 6 " 24 "	1.00
6 " 6 to 7 " 28 to 30 "	1.50
7-inch tubs, 6 to 7 " 36 to 38 "	3.00

Kentia Forsteriana—Single Plants

	Doz.	100	1000
2¼-inch pots, 4 leaves, 8 to 12 inches high	$1.50	$10.00	$90.00
3 " 4 to 5 " 12 to 15 "	2.00	15.00	140.00
4 " 5 to 6 " 15 to 18 "	4.50	35.00	

	Each
5-inch pots, 5 to 6 leaves, 24 inches high	$0.75
6 " 6 " 28 to 30 "	1.00
6 " 6 " 34 to 36 "	1.50
7 " 6 to 7 " 40 "	2.50
7-inch tubs, 6 to 7 " 40 to 42 "	3.00
8 " 6 to 7 " 45 to 48 "	4.00
8 " 6 to 7 " 48 "	5.00
10 " 6 to 7 " 4½ to 5 ft. high	6.00
11 " 6 to 7 " 5 to 5½ "	8.00
10 " 6 to 7 " 5½ to 6 "	10.00
12 " 6 to 7 " 6½ to 7 "	15.00
14 " 6 to 7 " 7 "	20.00

Kentia Forsteriana—Made-up Plants

3-inch pots, 3 plants in a pot, 15 inches high, $2.00 per doz., $15.00 per 100.

	Each
7-inch tubs, 3 plants in a tub, 36 inches high	$2.50
7 " 3 " " 38 "	3.00
8 " 3 " " 40 to 42 "	4.00
8 " 3 " " 42 to 45 "	5.00
8 " 3 " " 4 to 4½ feet high	6.00
9 " 3 " " 4½ to 5 "	8.00
10 " 3 " " 5 to 5½ "	10.00
12 " 3 " " 5½ to 6 "	15.00
13 " 4 " " 6½ to 7 "	heavy 20.00
15 " 4 " " 7 "	" 25.00



Made-up Kentia

For a complete list of other Palms as well as other seasonable stock, see our CURRENT WHOLESALE LIST.

HENRY A. DREER, Inc., 714 CHESTNUT STREET PHILADELPHIA, PA.

The above prices are intended for the trade only.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Clubs and Societies

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting on Tuesday evening, November 18, was attended by a large concourse of members, who were disappointed by the inability of the lecturer of the evening to appear on account of illness, but who were well repaid for their trouble in the spicy discussions that were precipitated by the inquisitiveness of some of their number. It was a really enjoyable meeting with much good nature apparent throughout. No less than twenty-three new members were voted in.

On the exhibition platform were some fine snapdragons from the secretary, W. N. Craig, which Mr. Craig said were grown from seed planted last April. A. M. Davenport's Lorraine Sport made a very handsome object on the exhibition platform. It was commented upon as the best sport from Lorraine begonia thus far. Very compact, with flowers much larger than the type; habit more robust and plant easier to handle and pack than Cincinnati as the foliage is not so large. Alex. McKay was represented by a grand specimen of Begonia Baron Rothschild, which he said was grown from a leaf cutting one year ago, and which he says is far superior to Lorraine in keeping qualities in the dwelling house. He also had some specimen chrysanthemum blooms. Answering a query he gave the names of Well's Late Pink, William Turner, Ramapo, Mrs. Gilbert Drabble, H. S. Converse, and Merza as a first-class six for show blooms. S. J. Goddard had carnations Yellow Stone and on behalf of Baur & Steinkamp, Radiance. Patten & Co. showed Princess Dagmar and Seedling 561, a lovely pure-toned light pink. W. W. Edgar Co. showed a fine plant of the new Germania azalea, a very promising early flowering variety, and some small plants of Mme. Petrick grown on own roots.

During the examination of Mr. McKay on chrysanthemum growing, Duncan Finlayson gave a glowing description of the giant specimen plants he had seen at the New York show. The question of the methods by which these enormous plants had been grown and the comparative skill required as between old clumps held over and one-stem plants from cuttings brought out some rapid-fire wit and repartee between the enthusiastic admirers of Messrs. Waite and Canning and the critics of their accomplishments as displayed in New York.

The deaths of P. S. Duke and E. L. Pierce were reported and Messrs. Stewart, Craig and Finlayson were appointed to prepare resolutions on the latter.

Awards were made as follows: Report of merit to Alex. McKay for Begonia Germania and A. M. Davenport for Lorraine Sport. Honorable mention to W. W. Edgar Co. for azaleas and poinsettias; Faulkner Farm for snapdragons; Patten & Co. for carnation seedling, No. 561, and S. J. Goddard for carnations Yellow Stone and Radiance.

Officers were nominated as follows: President, W. J. Kennedy; vice-president, Herman Bartsch; treasurer, Peter Fisher; secretary, W. N. Craig—all present incumbents. Executive committee, Messrs. Peter Miller, Geo. M. Anderson, Jas. Wheeler, Eber Holmes, W. J. Patterson, B. Hammond Tracy, W. J. Stewart, K. Finlayson, W. J. Collins, A. E. Robinson, James McIntosh and W. C. Rust, from which list four are to be chosen.

The landscape gardening class started on Monday evening, November 17, with approximately twenty members and will meet regularly on Monday evenings.



Swastika Brand Cannas

This peculiar shaped Swastika is an ancient symbol meaning Good Luck, or the four winds of Heaven

For years we have used it in our catalog to mark the Cannas of our own development. Gradually our customers have associated the Swastika with Conard & Jones Cannas, and the famed work of Antoine Wintzer.

Now that we are listing over eighty varieties, fully two-thirds of which are our own production, it seems only logical to give them the brand name of Swastika, for quite the same reason that our friend Ward, for instance, calls his bulbs, "the Horseshoe Brand."

We believe that selling them under a brand in this way will be of a special advantage to both dealers and those who wish to catalog them.

Our list is now ready. Among them are some new things, which, after passing Mr. Wintzer's three years' test, are ready for you and your customers.

Among the number is the splendid broad petalled "Panama," a fine, regal, free-flowering member of the family, that is getting itself much talked about.

Send for our list. Get your order in early.

THE CONARD & JONES CO.

Swastika Brand Cannas

WEST GROVE, PENN.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses

FOR FALL PLANTING

Largest Assortment

THE NEW ENGLAND NURSERIES

Telephone Lexington 274,W. BEDFORD, MASS.

Mention HORTICULTURE when writing

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P O No 1, Hoboken N J.

Mention HORTICULTURE when writing.

Very Large Evergreen and Deciduous Trees

LARGE PRIVET

The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

DAHLIAS

800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World.

J. K. ALEXANDER

"The Dahlia King"

East Bridgewater, - - Mass.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Frederick Lagerstam, of Belle Haven, Greenwich, Conn., submits for registration, the chrysanthemums described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objections to the registration, the same will be made three weeks from this date.

"Mary Ellen"—Sport from Dr. Enguehard. Habit, growth and foliage the same as Dr. Enguehardt. Flower is a light terra-cotta with a blush of pink.

Charles L. Baum, of Knoxville, Tenn., submits for registration, the chrysanthemum described below: Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objections to the registration, the same will be made three weeks from this date.

"Lena Baum"—Sport from Chas. Rager, or Chas. Razer. Color light yellow, Jap. incurved. A better grower and larger flower than its parent and considered one of the best yellow commercial varieties of its kind. It is practically perfect in form, finish, stem and foliage, and is a very easy grower.

Public notice is hereby given that, as no objections have been filed to the registration of the fern "Pteris Krinkeii," by Henry Krinke & Son, of St. Paul, Minn., same becomes complete. JOHN YOUNG, Sec'y.

November 10th, 1913.

ST. LOUIS FLORIST CLUB.

This club held a very interesting meeting last Thursday afternoon. After the regular routine business the spring flower show came up for discussion, after which it was voted to place the matter in the hands of the publicity committee and report their action at the next regular club meeting. Secretary Beneke read a letter from President-elect Theo. Wirth, of the S. A. F., asking for the selection of names suitable for state vice-presidents. It was decided that this be left in the hands of the trustees. Dr. Geo. T. Moore, director of the Missouri Botanical Garden was on motion elected an honorary member of the club. Secretary Beneke announced a few delinquent members and it was moved to allow them one more month time to pay before being dropped.

Robert J. Windler, as a representative of the Retail Florists' Association, asked the club to co-operate with them in asking the local wholesale florists not to publish their names in the classified list of the telephone directory. This brought forth a big discussion and the proposition was voted down as the Florist Club was composed of members in all branches of the trade and the Retail Association only of retailers.

John Held, a local grower, showed a vase of new pompon chrysanthemums. A bunch of 50 carnation Philadelphia was sent for staging but came in such poor condition the trustees thought best not to exhibit them and will look for better shipment for the next meeting.

R. Marshall brought this interesting meeting to a close with a fine lecture on Greenhouse Heating, which held the growers to the last. The next meeting will take place on Thursday afternoon, December 11th.

A HARDY SALVIA.

Last year we had occasion to mention approvingly Salvia Greggii, a hardy species from Texas. Messrs. Baker Bros., who are advertising this promising garden plant in this issue have a letter from W. H. Wyman of the Bay State Nurseries, North Abington, Mass., stating that it had been given a trial as to hardiness and the crowns had lived through last winter satisfactorily in a somewhat sheltered position.

Salvia Greggii

NEW, HARDY EVERBLOOMING RED FLOWERING SHRUB

A Native of the Cold, Arid Mountains of West Texas

Extremely hardy. Has withstood a temperature of ten degrees below zero. Is a great drouth resister. It flourishes and blooms profusely in the hottest and driest weather. It is as near an everblooming plant as we have ever seen. It begins to bloom in early Spring soon after growth commences. The blossoms literally cover the plant for two months or more. Then for a few months it does not bloom so freely, but is perhaps never without some flowers. In the Fall it puts on another full crop of blossoms that continue till long after the early frosts have set in. It requires a killing freeze to check its flowering.

The color is an indescribable lovely shade of red. It is a dark, soft cerise crimson, much the color of a well-grown American Beauty Rose. It has none of the harsh, glaring shades of the Salvia splendens. The beautiful color is perhaps the most attractive feature of this novelty.

It is a hard-wooded shrub. Grows three to four feet high and three to four feet wide in a compact globe, very full and neat in appearance. It is beautiful when massed in a solid bed, and is as useful as the Spiraea Van Houttei for bordering shrub beds. It is not so tall, but is as compact and graceful as the Spiraea, and in addition it is a blaze of beautiful red nearly all the season.

The very important question as to where it will grow has not been fully demonstrated, though we are fully convinced it will succeed in nearly every State of the Union. Young plants in Philadelphia, Pa.; Lexington, Mass.; North Abington, Mass., and Parsons, Kansas, went through last Winter in the open ground without protection. We have never heard of their being damaged by cold weather anywhere, but we do not know of their being exposed to anything colder than ten degrees below zero.

For prices address

Baker Bros. Co., Ft. Worth, Texas

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale .....$3.80 25 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots.. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. each.
J. H. SPRAGUE, Barnegat, N.J.

ORCHIDS
600 PLANTS
Flowering Cattleya Labiata
in Sheath for November and December. Ready to ship now. In or out of pots. Also orders taken for fresh imported stock to arrive early 1914.
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.
G. L. FREEMAN, Mgr.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS
We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL. Summit N. J.,

SPHAGNUM MOSS
We guarantee fresh and clean, 10 bbl bales; Selected Stock; neatly burlapped. 6 per cent, off Cash with order.
1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00
Car lots. Write for Prices.
INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

WALTER MOTT'S NOTES BY THE WAY.

Troy, N. Y.

Gordonier Sons & Co. report an exceptionally good bulb season. They are busy with the new seed catalogue.

Sambrook Bros. gave a special chrysanthemum exhibition with an exceptionally fine stock. Chadwick Supreme is considered the best mid-season white here.

Albany, N. Y.

Fred A. Danker is working on a new catalogue that for style and completeness will surpass anything yet attempted. The landscape department is an assured success.

H. G. Eyres has fully recovered from a long spell of sickness and realizes he has some excellent friends among his customers who are glad to see him on deck again.

One of the surprises in the seed trade was the transit of Louis Schaefer from Eberle's to the Shearman house where he will fill a similar post as western representative.

Geo. H. Price, the prominent seedsman, says he has customers on his books still who purchased their first bill of seeds the first year of business and relies almost entirely upon the reputation he has built up for a continuance.

Auburn, N. Y.

Alfred Patrick, accompanied by Mrs. Patrick paid quite a visit to New York City, making a round of the chrysanthemum shows. It is refreshing to hear him describe the many advances made in the quality of stock of which he is a capable judge with experience of almost half a century. During their absence, the business was well taken care of by the two sons in charge of the houses and store.

Syracuse, N. Y.

Henry Youell, as representative of the craft both in the seed and flower branches has received many compliments from prominent visitors regarding the exhibits at the State Fair and predicts a still larger showing next season, introducing several new ideas.

NEW CORPORATIONS.

Rogers, Ark.—Jones Bros. & Co., nurserymen, capital stock, $400,000.

Grafton, Ill.—Rippley Manufacturing & Steamboat Co., capital stock, $15,000.

Creston, Ohio—Red Oak Seed Co., capital stock $10,000. Incorporators, A. C. Gustafson and others.

New Hyde Park, N. Y.—Long Island Seed Company, capital stock, $100,000. Incorporators, Francis B., Sarah M., and Alice L. Garvey.

Grand Rapids, Mich.—A. J. Brown Seed Company, capital stock, $200,000. Incorporators, President and treasurer, A. J. Brown; vice-president, T. Hershel Brown; secretary, E. B. Seymour.

Notes.

The J. C. Peppard Seed Co., of Kansas City, Mo., has increased its capital stock from $100,000 to $115,000.

The Braslan Seed Growers Company representative is leaving San Jose, Cal., for Eastern trade centers this week on his annual visit to the customers of the firm.

Chicago, Ill.—The seed stores are the leaders in getting ready the Christmas offerings. Already attractive displays of all the best sellers are being temptingly arranged, and the fact that the holidays are but a few weeks away is impressed upon the callers, catching the early orders.

PUBLICATIONS RECEIVED.

"Tree Talk," for November, published by Frost & Bartlett Company, Stamford, Conn., is an interesting and instructive 28-page issue. This is the second quarterly number. We understand that the publishers contemplate making it a monthly.

Bulletin No. 113 of the Agricultural Experiment Station of the University of Missouri is devoted to the culture and care of strawberries and especially valuable information on commercial fertilizers for strawberries by W. H. Chandler. Copies may be obtained by addressing the Station, Columbia, Mo.

Ohio State Horticultural Society; Annual Report for 1913. An interesting and instructive publication of 144 pages, being the record of the 46th Annual Meeting held at Zanesville, January 22-24, 1913. The topics treated are mainly appertaining to fruit and vegetables and farming problems, many of them from the pen of able and experienced writers.

The 53rd Annual Report of the Board of Park Commissioners of Hartford, Conn., has been received. The park department of Hartford is recognized far and near as a model to work up to. The report before us is especially interesting from the attention given to the activities associated with the playgrounds, and the many fine illustrations of this all-important feature. A splendid portrait of Charles E. Gross, who retires from the Commission after 18 years' service, is inserted as a frontispiece. Superintendent George A. Parker is to be congratulated, as always, on the completeness and thoroughness of his report.

FIRES.

St. Louis, Mo.—The greenhouse of St. Joseph's Academy was destroyed by fire on the morning of November 12th.

Sandusky, Ohio—Fire destroyed six buildings, boiler room and office of George F. Hartung, South Campbell street, on October 21st, causing a damage of $7,000, partly covered by insurance.

At the last meeting of the Chicago Florists' Club all the present officers were renominated for next year: President, Guy French; vice-president, Alex. Henderson; treasurer, E. F. Winterson; secretary, James Foley; trustee, Geo. Asmus.

MICHELL'S FLOWER SEED AND BULBS

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

STOCK SEED

EARLY-FLOWERING NICE

	Tr. pkt.	Oz.
Beauty of Nice, delicate pink	$0.50	$2.00
Victoria, white	.50	2.00
Queen Alexandra, lavender	.50	2.00
Crimson King	.50	2.00
Abundance, carmine rose	.50	3.00
Mme. Rivoire, pure white	.50	3.00

FORCING GLADIOLUS

FINE PLUMP BULBS. READY NOW.

	100	1000
Bride, pure white	$0.65	$5.25

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market Street, PHILADELPHIA, PA.

Mention HORTICULTURE when writing

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

WILSON'S SEEDS SOLD IN NEWARK

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc.

79 Orange St., NEWARK, N. J.

WILL GROW ANYWHERE

Mention HORTICULTURE when writing

QUALITY SEEDS BULBS PLANTS

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON

342 West 14th St., New York.

We Specialize in
DANISH
Cabbage, Cauliflower and Root Seed
Grown by
Hjalmar Hartmann & Co., Copenhagen
NEW ZEALAND
Garden Peas
Grown by
F. Cooper Ltd., Wellington, N. Z
SWEDISH
Seed Grain
Grown by
The General Swedish Seed Co., Svaloef

These three concerns are the foremost in their line in their respective countries.

Ask for Price Lists and Information
LOECHNER & CO.
11 Warren Street, New York

We have all the leading
WINTER SWEET PEAS
at $2.00 per lb. Try a few of our
NEW WINTER ORCHID
SWEET PEA, at $4.00 per ½ oz.
Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.
Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.
ANT. C. ZVOLANEK
LOMPOC, CALIFORNIA

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No. Market St., BOSTON, MASS.

Place your order now for Ayres' Winter Flowering
SWEET PEA SEED
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.
Mention HORTICULTURE when writing.

REMOVAL NOTICE
We are Now Permanently Located
At Our New Address
98 Chambers Street, N. Y.
Between Broadway and Church Street
Telephone 6138 Barclay
BURNETT BROS., - Seedsmen

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable and Flower Seeds

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

FOTTLER FISKE RAWSON CO.,
LILIES BOSTON
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

MUSHROOMS
Barter's Peerless Brand
$6.50 100 lbs.
Our treatise how to succeed included
Wm. Elliott & Sons
42 Vesey St., New York
Mention HORTICULTURE when writing

NARCISSUS
PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS
1000 per case, $10.00
WEEBER & DON
Seed Merchants, 114 Chambers St., New York
Mention HORTICULTURE when writing

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

PAEONY ROOTS
Assorted in five colors, $10.00 per 100.
BLEEDING HEART ROOTS
$6.00 per 100.
EARLY WHITE ROMAN HYACINTHS
(12 to 15), $3.00 per 100, $28.00 per 1000.
FREESIA
Refracta Alba, ⅜ to ½-in., 60c. per 100, $4.00 per 1000.
LILIUM HARRISII
5 to 7, $3.50 per 100, $30.00 per 1000.
Spiraea, Lily of the Valley Clumps and Pips
Will arrive soon—prices on application.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 18) NEW YORK, N. Y.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Jersey Grown Callas
1 1-2 inches in diameter and up.
To clean out $50.00 per 1000
O. V. ZANGEN
SEEDSMAN, HOBOKEN, N. J.
Mention HORTICULTURE when writing

Plants, Bulbs & Seeds
It is our aim to please you at all times. Try us
S. S. SKIDELSKY & CO.
1218 Betz Building, Philadelphia, Pa.
Catalog for the asking

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

J. W. Edmondson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1501
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Greenville, Tex.—Barlow Floral Co.

Fargo, N. D.—T. D. Smedley, 69 Broadway.

Fort Smith, Ark.—George Rye, 16 N. 6th street.

La Salle, Ill.—B. Katzwinkel, Evans Building.

Chicago, Ill.—Ed. Eisner, 5448 S. Halsted street.

Chicago, Ill.—J. J. Kolar & Son, 5115 W. 25th street.

Philadelphia, Pa.—N. Theodoru, 9th and Market streets.

Philadelphia, Pa.—S. J. Irvine, 807 North Broad street.

Madison, Wis.—Rentschler Floral Co., 226 State street.

STEAMER DEPARTURES

American.
Philadelphia, N. Y.-S'h'pton Nov. 28

Atlantic Transport.
Maryland, N. Y.-London.....Nov. 29

Cunard.
Carmania, N. Y.-Liverpool....Nov. 29
Iaconia, N. Y.-Mediter'n.....Dec 2

French Line.
France, N. Y.-Havre .....Nov. 26
La Touraine, N. Y.-Havre....Nov. 29

Hamburg-American.
Amerika, N. Y.-Hamburg. ..Nov. 27
Pres. Lincoln, N. Y. Hamb'g.Nov. 29

Holland-America.
Rotterdam, N. Y.-Rotterdam.Nov. 25

Leyland.
Bohemian, Boston-Liverpool..Nov. 29

North German Lloyd.
Gr. Kurfuerst, N. Y.-Bremen.Nov. 25
G. Washington, N. Y.-Br'm'n.Nov. 29

Red Star.
Kroonland, N. Y.-Antwerp...Nov. 26
Finland, N. Y.-Antwerp.....Dec. 3

White Star.
Baltic, N. Y.-Liverpool.....Nov. 27
Adriatic, Boston-Mediter'n...Nov. 29
Oceanic, N. Y.-S'hampton....Nov. 29
Cymric, Boston-Liverpool.....Dec. 2

Hartford, Conn.—Andrew Bros., Main and Summer streets.

New Haven, Conn.—Charles M. Meyers, 936 Chapel street.

Rockford, Ill.—The Rockford Floral Co., West State street.

New York, N. Y.—Eisenberg's, Sixth avenue, near 52nd street.

Texarkana, Ark.—The State Line Floral Co., Tavern Hotel.

Albany, N. Y.—James Larasis, S. Pearl and Howard streets.

Montgomery, Ala.—Morningview Floral Co., 20 S. Perry street.

Columbus, Ohio—Brock & Crane, opposite Ohio State University.

Chicago, Ill.—North Shore Floral Co., 849 Irving Park Boulevard.

Maquoketa, Iowa—Mr. and Mrs. Wm. Thomas, Electric Light Company Building.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
28 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

RHODE ISLAND
JOHNSTON BROTHERS
Leading Florists. Orders filled for any part of the State.
38 Dorrance Street - - PROVIDENCE

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
314-316 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
1214 F ST., N.W.
WASHINGTON, D.C.
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Grand Haven, Mich.—G. Zaagman & Co. have gone out of business.

Oakland, Cal.—The Sunset Floral Company has moved from 114 Eleth avenue to 92 41st street.

Weldon, Pa.—J. F. Birmingham has purchased the flower business of his former employer, the late Edward D. Droun.

New York, N. Y.—The window of Ralph Armstrong's store on Madison avenue blew in on the evening of November 1st, causing $1,000 damage.

New Bedford, Mass.—William P. Peirce, florist, mourns the loss of his auto which took fire while he was using it on a gunning trip and was totally destroyed.

SPECIAL
NEXT TWO WEEKS ONLY
RED CAPES

	5 Lb. Lots	10 Lb. Lots
WHITE, per lb.,	$ .85	$ .75
COLORED, per lb.,	1.10	1.00

Orders Rushed Out on Receipt
No Need to Use High-Priced Immortelles
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

CHICAGO NOTES.

The North Shore Floral Co. moved into its new store, 849 Irving Park Boulevard, last week.

R. C. Schiller is again at his home in Evanston, after three weeks in a hospital following an operation.

Alex Henderson Co. are just unpacking a large shipment of Japanese bulbs, Lilium auratum, rubrum, etc.

Another retail store is added to Chicago's long list in the outlying district. It is J. J. Kolar & Son's at 5115 W. 25th street.

John F. Kidwell & Bro., whose store and greenhouses were badly injured by fire recently, have the repairs well under way and business is now carried on again.

There seems to be something unusual in the fern conditions this year. The only ones who appear to feel easy are those whose stock is secured by good contracts.

A rose grower for J. F. Kidwell at his Belmont place, was found dead Sunday night, beside the Chicago, Burlington & Quincy R. R. He had been with Mr. Kidwell three months, but no one knows of his family or friends.

Two carloads of hydrangea plants that had come all the way from Belgium, to be frozen in the big snow storm, will be a disappointment to Poehlmann Bros., who have refused to accept the stock. It means just that many less plants for Easter.

A visit to the preparing rooms of the Poehlmann Bros. store, reveals the fact that no time is being lost in getting everything into shape for the coming rush and the holiday season will be one of good stock, clean, fresh and with plenty of variety to choose from.

The Wholesalers' Credit Association has not yet materialized and the time of the old one has expired. Though no meetings have been held during the past week, considerable interest is known to exist and the outcome of a strong association is predicted by many.

Arthur Bloome is receiving the congratulations of his friends, many of whom were taken by surprise, when they received the announcement of his marriage with Maude Margaret Lau, which occurred at River Forest on Nov. 5th. The groom is well-known to the trade, having been many years with his brother, Paul Bloome, in their retail store on No. Clark street. Mr. and Mrs. Bloome will reside at 2749 Hampden Court.

Work is progressing rapidly on the factory at 31st street and Spaulding avenue, rented by the Foley Greenhouse Mfg. Co., which supersedes the well-known Foley Mfg. Co., formerly at Western avenue and 26th street. The factory site has some advantages over the old one, being on the Illinois Northern whose tracks, unelevated, run close by and whose side tracks enter the factory, and is of the same easy access to callers, being close to Kedzie avenue, a main, north and south street car line. Philip J. Foley says factory will be ready in the shortest possible time and that the firm is already handling estimates on its new work.

An annual event, always of great interest to the public, is the opening of the chrysanthemum shows at the parks. At the conservatories in Garfield Park, said to be the largest park conservatories in the world head gardener August Koch had the exhibit ready for the public Sunday, Nov. 9, and in spite of the storm, thousands of people were in attendance. The large floor space has an oval center bed 75 feet long entirely filled with white varieties. The side beds slope from the floor to the roof and a fine color effect was made by using pink shades running from white to the deepest rose on one entire side and yellow running through bronze and red on the opposite. Specimen plants grouped at either end were exceedingly fine, a Zenoba with over 1000 blooms being prominent. At the four corners are grouped 1200 single-stemmed plants in 100 varieties, many of them of the newest kinds. Totty's single red, Alex Rowbottom, held the place of honor as the largest of the singles. The grower, Louis Heidtmann, for many years with the park, is an enthusiast and a student in his work, and the new varieties are tried as they come out. As all plants are plainly labeled a visit here is an opportunity to see what is being developed in the chrysanthemum world.

Visitors: J. McHutchison, New York; Mrs. Baumgarten, Milwaukee, Wis.; J. E. Matthewson, Sheboygan, Wis.; A. R. Leidiger of Edlefson Leidiger Co., Milwaukee, Wis.; Walter Mott, representing Benj. Hammond, Beacon, N. Y.; Wallace R. Pierson, Cromwell, Conn.

PHILADELPHIA NOTES.

Paul Klingsporn has left Berger Bros. and will locate in the west.

Samuel J. Irvine, late with Louis Burk, has opened a flower store at 807 North Broad street.

Mr. and Mrs. John N. May and Alexander Montgomery and son were guests of John Burton last week.

H. C. Heileman has sold out his flower store on Germantown avenue and will go into other business.

Gustave Koethe has purchased additional land at Roxborough, for the further extension of his florist business.

Billy Stevens, late with John Burton, is now on the sales staff of Berger Bros. He is proudly wearing a gold watch, presented to him by his late employer "for long and faithful service."

Thanks to the fireproof character of the Niessen Building no damage was done to the main floor where the Niessen business is conducted from the fire which occurred on the second floor occupied by Koons Bros., leather manufacturers.

BUSINESS TROUBLES.

Corry, Pa.—Charles Oscar Richard Miller, proprietor of the Corry Plant & Floral Company for the past two months, has left town. He is wanted by the United States Post Office inspectors for alleged fraudulent use of the mails.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

GEORGE H. COOKE

FLORIST

Connecticut Ave. and L St., N. W.

WASHINGTON, D. C.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

LISTEN HERE

Thanksgiving Goods are now ripe. Get busy and pick them early. Elegant little flower receptacles of Delft Imperial Ware, Brownies, etc., Ferneries, Baskets and Vases. All New Goods. Sterling Novelties now offered for the First time. Tempting prices on our Special Gold Letters, Script and Block and Mother of Pearl.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



SUCCESSFUL FLORISTS

All over the country are using McCray Refrigerators. The circulation of air is so strong and steady that there can be no stagnation or dampness, so that your stock will always be fresh and fragrant. Furthermore the saving in ice will more than pay for the cost.

McCray Refrigerators

will lend attractiveness to your shop. Beautifully made and finished, they are lined with white enamel, opal glass, tile, mirrors or marble, as you desire. Write today for our catalog No. 73, which will give you ideas how to add to the attractiveness of your establishment.

McCRAY REFRIGERATOR CO.

Chicago Office, 55 Wabash Ave.
New York Office,
McCray Bldg., 7 & 9 West 30th St.

669 Lake Street, Kendallville, Ind.

PERSONAL.

Louis Sander, of F. Sander & Son, St. Albans, Eng., is expected to arrive in this country about end of November for a brief stay.

Cards are out for the wedding of Daniel E. Elsperinan of Evansville, Ind., and Rose C. Diehl, of the same place, November 19.

Herbert P. Crowley, of Hammann & Crowley, Newport, R. I., and Miss Margaret Smith were married in New York on November 10th.

William Swanson, one of the proprietors of the Snelling Floral Co., St. Paul, Minn., was married on November 8th to Miss Margaret Ollict.

William Gardner has accepted the position of head gardener on the new Fletcher estate at Brookline, Mass., which is being laid out by Warren H. Manning.

C. W. Blatchley of the Blatchley Co., Meriden, Conn., is critically ill with typhoid pneumonia at his home at Stillman's Corner. Mr. Blatchley is in charge of the greenhouse, while his son, R. C. Blatchley, is manager of the local store.

Cleveland visitors—Charles H. Totty, Madison, N. J.; L. J. Reuter, Westerly, R. I.; Joseph Hill, Richmond, Ind.; I. Rosnosky, of Michell's, Phila., Pa.; Wm. Gerlack, Piqua, Ohio; Milton Alexander, representing Lion & Co.; J. Burbach, representing Schloss Bros., and Jas. P. Keller of Lexington.



The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Apply to

Samples Sent Free

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

Boston visitors—O. V. Zangen, Hoboken, N. J.; Chas. Loechner, New York City; D. Cameron, representing F. Sander & Son, St. Albans, Eng.; W. M. Davidge, of Hudson Carbon Co., Ballston Spa, N. Y.

New York visitors—Alex. Montgomery and son, Natick, Mass; A. A. Young, Jewett City, Conn.

MOTHER OF PEARL LETTERS

THE LATEST NOVELTY

GOLD LETTERS

Send for Prices.

AMERICAN IMPORTING CO.

219 So. Dearborn Street, Chicago

BOXWOOD

15 cents per pound

Very choice quality, no waste. Place your order now, and we will make shipment when wanted. We have some on hand now, and can make delivery on receipt of your order.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 27	CHICAGO November 18	BUFFALO November 10	PITTSBURG November 10
Am. Beauty, Special	20.00 to 25.00	20.00 to 30.00	35.00 to 40.00	20.00 to 25.00
" " Fancy and Extra	15.00 to 20.00	15.00 to 20.00	25.00 to 30.00	12.00 to 15.00
" " No. 1	10.00 to 15.00	10.00 to 15.00	20.00 to 25.00	8.00 to 10.00
Killarney, Extra	4.00 to 6.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
" Ordinary	2.00 to 4.00	4.00 to 5.00	3.00 to 6.00	3.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 6.00	6.00 to 10.00	8.00 to 10.00	6.00 to 10.00
" " Ordinary	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00	3.00 to 4.00
Maryland, Ward, Taft, Sunburst Ex.	6.00 to 10.00	6.00 to 10.00	8.00 to 10.00	6.00 to 10.00
" " " " Ordinary	..... to	4.00 to 5.00	3.00 to 5.00	3.00 to 4.00
Russell, Shawyer	..... to	..... to	10.00 to 15.00	..... to .....
Carnations, Fancy	..... to 2.50	3.00 to 4.00	..... to 3.00	3.00 to 4.00
" Ordinary	..... to 1.50	2.00 to 3.00	..... to 2.50	1.50 to 2.00
Cattleyas	..... to 50.00	60.00 to 75.00	40.00 to 50.00	..... to 50.00
Cypripediums	..... to	..... to	10.00 to 15.00	..... to .....
Lilies, Longiflorum	12.50 to 15.00	8.00 to 10.00	10.00 to 12.00	8.00 to 10.00
Callas	..... to	6.00 to 8.00	8.00 to 10.00	..... to .....
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	4.00 to	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to	3.00 to 4.00	3.00 to 4.00	..... to .....
Freesias	..... to	..... to	..... to	..... to .....
Chrysanthmums	12.50 to 15.00	5.00 to 20.00	6.00 to 25.00	4.00 to 25.00
Violets	.35 to .50	.75 to 1.00	.60 to .75	.50 to .75
Daises	..... to	.75 to 1.00	.75 to 1.00	1.00 to 1.50
Sweet Peas	..... to	.75 to 1.00	.50 to .75	..... to .....
Gardenias	..... to	25.00 to 50.00	..... to	30.00 to 40.00
Adiantum	..... to 1.00	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25
Smilax	..... to 12.50	12.00 to 18.00	..... to 15.00	15.00 to 20.00
Asparagus Plumous, Strings (100)	25.00 to 40.00	40.00 to 60.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	15.00 to 25.00	25.00 to 40.00	35.00 to 50.00	15.00 to 50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 86

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON As a general proposition, the heavy stock of material that daily encumbered the wholesale markets when last report was made, has been noticeably reduced. This is due in part to the waning chrysanthemum output and in part, we believe, to the proclivities of the growers in holding back their cut as much as possible for the expected Thanksgiving Day call. Carnations are not very plentiful, neither are roses and both these staples have gone up a peg in market value. Violets are very scarce. Lily of the valley excellent in quality. Paper white narcissi are coming in freely. Very fine Sunburst and Killarney Queen are in evidence and they bring a good figure when on 24 to 28-inch stems. Chrysanthemums have a bedraggled look and the end is not far off.

BUFFALO The supply in roses has fallen off considerably and the conditions have got back to normal. Chrysanthemums are in full swing and have sold quite satisfactory. Some choice Golden Wedding and Maud Dean have had ready sale. There, too, is the usual amount of ordinary stuff which blocks up and are moved for whatever can be realized. So far Major Bonnaffon has not been up to previous years in quality—more of the small stuff than the good large size. Violet sales were brisk for one day only and have again fallen back to the forced sale. Lily of the valley continues in normal supply and has remained steady. Lilies are more active and there has been a call for good Beauties which are scarce. The poor quality has not sold and Milady, which are excellent are preferred. There is a good demand on asparagus and other greens, some laurel and southern smilax have been used extensively the past week.

CHICAGO The market is considered to be in a very good condition, with a general shortening up of stock. Demand has been good and while there had been no specially heavy calls, as often occurs, the great bulk of flowers moved off at fair prices. Quite a number of sweet peas are coming now, the stems of most of them being of fairly good length and meet ready sale. American Beauties are still holding second place to chrysanthemums, but no one seems to have any going to waste. Extra long stems sell more slowly than the medium grades, but this is not confined to chrysanthemum season only. The call for orchids is just now rather ahead of the supply and prices are made accordingly. The supply of good carnations has shortened and probably will remain so till after the holidays. Home-grown violets are in fair supply, the eastern stock arriving in limited quantities during the warm damp weather. There is no excess of greens in any line. Most of the wholesalers report few advance orders for Thanksgiving and do not anticipate any great demand for flowers for that day.

CINCINNATI The market still seriously feels the effect of the glut of chrysanthemums. The receipts of the shorter and medium grades are far greater than can be utilized. The glut will probably continue until Thanksgiving next week. From present indications chrysanthemums alone will be in adequate supply for Thanksgiving. Most of the other stock is coming in in limited quantities which, while more than adequate right now, will scarcely be able to take care of a strong demand. The rose supply has shortened considerably. The cut of American Beauties is short of the call for them. Carnation cut is a little heavier than a week ago. Lilies are plentiful and considering market conditions enjoy a fair call. Violets are not selling very well. Lily of the valley and orchids prove good property. "Mexican ivy" has been added to the green goods list during the past week.

NEW YORK On Saturday, owing to the opening of the Horse Show, probably, there was a decided improvement in the market. Gains were apparent all along the line. Roses, which are much shorter in supply, have stiffened up in price, especially in the lower grades. Carnations cleared out nicely. Lily of the valley took a jump with the rest of the stock, reaching 4c. and a limited supply of special stock brought $5 per 100. Cattleyas are not so much in evidence. Chrysanthemums, while not realizing more money, cleaned up much better. Taking things all together,, there is a marked improvement in the market. Southern asparagus plentiful.

ST. LOUIS The market though not any too brisk, was steady throughout the past week. The supply and quality of chrysanthemums has been good during the entire season. Carnations are up in price owing to the shortage. The fancy goods run $4 per 100 and common go at $2. Roses are holding their own so far this season, running in price from $3 to $10 per 100, with

(Continued on page 718)



Killarney Brilliant

Probably no rose has won the laurels this rose has, silver medals, certificates, honors wherever shown. The best commercial rose of the future.

OWN ROOT. $30.00 per 100; $250.00 per 1000

GRAFTED. $35.00 per 100; $300.00 per 1000

GRAFTING EYES. $200.00 per 1000, January delivery.
Special Quotations on larger quantities.

MATCHLESS, the peerless White Carnation for 1914. Rooted Cuttings, $12.00 per 100; $100.00 per 1000.

VALLEY. Special, $4.00 per 100. Extra, $3.00 per 100.

BOXWOOD. $8.00 per case of 50 lbs.

Business Hours 7.30 A. M. to 6 P. M.

RIBBONS AND SUPPLIES. Many new patterns in exclusive ribbons. If you have not yet received one of our new catalogues, advise us at once and we will mail you a copy.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. NEW YORK 117 West 28th St. BALTIMORE Franklin & St. Paul Sts.
WASHINGTON 1216 H St. N. W.

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON November 20			ST. LOUIS November 17			PHILA. October 27		
Roses									
Am. Beauty, Special	20.00	to	25.00	25.00	to	35.00	20.00	to	25.00
" " Fancy and Extra	10.00	to	15.00	18.00	to	20.00	12.50	to	16.00
" " No. 1	6.00	to	8.00	12.00	to	15.00	8.00	to	10.00
Killarney, Extra	4.00	to	6.00	8.00	to	10.00	4.00	to	8.00
" Ordinary	1.00	to	4.00	3.00	to	6.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	6.00	8.00	to	10.00	4.00	to	8.00
" " Ordinary	1.00	to	4.00	4.00	to	6.00	1.00	to	3.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	10.00	8.00	to	10.00	4.00	to	8.00
" " " " Ordinary	2.00	to	4.00	3.00	to	6.00	1.00	to	3.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00
" Ordinary	1.00	to	2.00	2.00	to	2.50	1.00	to	1.50
Cattleyas	40.00	to	50.00	40.00	to	50.00	25.00	to	40.00
Cypripediums	.....	to	.....	.....	to	.....	.....	to	.....
Lilies, Longiflorum	6.00	to	8.00	12.00	to	15.00	8.00	to	12.50
Callas	.....	to	.....	10.00	to	12.50	.....	to	.....
Lily of the Valley	1.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Paper Whites, Roman Hyacinths	.....	to	.....	3.00	to	4.00	.....	to	.....
Freesias	.....	to	.....	.....	to	.....	.....	to	.....
Chrysanthmums	6.00	to	15.00	10.00	to	30.00	3.00	to	20.00
Violets	.....	to	1.00	.25	to	.50	.40	to	.75
Daisies	.....	to	1.00	.....	to	.....	.50	to	1.50
Sweet Peas	.....	to	.....	.50	to	.75	.....	to	.....
Gardenias	.....	to	25.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	12.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	25.00	to	35.00	.....	to	50.00
" " & Spren. (100 Bchs.)	20.00	to	30.00	25.00	to	35.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1503 / 5893 } Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers

MISCELLANEOUS	Last Half of Week ending Nov. 15 1913	First Half of Week beginning Nov. 17 1913
Cattleyas	30.00 to 50.00	40.00 to 60.00
Cypripediums	..... to	..... to .....
Lilies, Longiflorum	4.00 to 5.00	4.00 to 5.00
Callas	..... to	..... to .....
Lily of the Valley	2.00 to 3.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	..... to	..... to .....
Freesias	..... to	..... to .....
Chrysanthemums	6.00 to 25.00	6.00 to 25.00
Violets	.50 to .75	.50 to .75
Daises	.90 to 1.00	.50 to 1.00
Sweet Peas	..... to	..... to .....
Gardenias	25.00 to 35.00	25.00 to 35.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	..... to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 708 and 709 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V. Pres. JOSEPH MARGOLIS, Secy.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST., NEW YORK CITY
Special Attention to the Shipping Trade

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 713)

Killarney as the bulk in supply. Some extra fine lily of the valley is now in from local growers, also paper whites and Easter lilies. Violets have a good demand and are now too plentiful. Fine demand for smilax, oak branches and asparagus.

WASHINGTON There seems to be somewhat of a scarcity of really good carnations, with the result that the price has advanced somewhat. Gardenias, too, are also to be had in very limited quantities and prices are quoted on single flowers rather than on dozens or hundreds. Single violets are not very good while the doubles have improved greatly in both quality and price. Roses are quite plentiful. The rain of Saturday put something of a crimp into the chrysanthemum sales for the Georgetown-Virginia football game and quite a few were left over. Great preparations were made for the day and store windows were gaily decorated.

HOLYOKE EXHIBITION.

One of the best flower shows ever held in the Connecticut Valley was held Thursday afternoon and evening, Nov. 13, in Windsor Hall, Holyoke, Mass., by the Florists' and Gardeners' Club of Holyoke and Northampton. It was the first annual exhibition, and it was well attended. Students from Mt. Holyoke, Smith and Amherst colleges were present, and made a study of the plants and flowers along with their college course.

There were more than twenty-five entries, which included carnations, roses, chrysanthemums, orchids, flowering plants, foliage plants, table and mantel decorations. The groups arranged for decorative effect attracted most attention. A. N. Pierson, exhibited fine roses. E. J. Canning of Northampton, in about 100 square feet, staged some fine coniferous evergreens in pots, with twenty different species in the group.

The 1st prize for chrysanthemums, collection of twenty-five, was awarded to the Mass. Agricultural College; Mt. Holyoke college was second and H. W. Field of Northampton, third.

The noteworthy exhibitors were:

H. W. Field, Northampton; G. H. Sinclair, Holyoke; Mass. Agricultural College; Smith College; Mt. Holyoke College; R. S. Carey, So. Hadley Falls; Gallivan Brothers, Holyoke; A. N. Pierson, Cromwell, Conn.; E. J. Canning, Northampton; N. F. McCarthy & Co., Boston; S. S. Skidelsky, Philadelphia; Mrs. A. L. Fraleigh, Holyoke; The Montgomery Co., Inc., Hadley, Mass.

The exhibition was such a success in every particular, that a much larger show is being planned to be held in Northampton next year.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 15 1913	First Half of Week beginning Nov. 17 1913
American Beauty, Fancy and Special	12.00 to 25.00	15.00 to 25.00
" " Extra	10.00 to 12.00	10.00 to 12.00
" " No. 1	6.00 to 8.00	6.00 to 8.00
Killarney, Extra	3.00 to 4.00	3.00 to 5.00
" Ordinary	1.00 to 2.00	2.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 4.00	3.00 to 5.00
" " Ordinary	1.00 to 2.00	2.00 to 3.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 6.00	4.00 to 8.00
" " " " Ordinary	2.00 to 3.00	2.00 to 3.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

NEWS NOTES.

Indianapolis, Ind.—The boiler shed and greenhouses of Leo Rickenbach were considerably destroyed by fire last week.

Charles H. Totty. and S. J. Reuter have decided to send out their red rose Prince E. C. de Arenberg, next year. This rose has been sold by John Young in the New York market under the name of "Red Prince," but Messrs. Totty and Reuter desire it to be sold under its proper name. This rose has made a decided "hit."

We are pleased to be able to say that C. C. Laney, Superintendent of Rochester Parks, came home from the hospital on Wednesday, November 19th, having been there three weeks. He was operated on for appendicitis. He is recovering rapidly and it looks now that he will be back to business in three or four weeks' time. His case was a most serious one, as dangerous complications had commenced when the operation was performed, but thanks to his remarkably strong, rugged constitution he pulled through all right.

The Department of Entomology of the University of Missouri is working on greenhouse insects with a view of finding more efficient methods of combating same.

Florists will confer a favor on this department by sending to it any rare greenhouse insects they may find. When sending send the insect in a small paper box or mailing tube with several leaves of the plant on which it was found, and also the name of the plant, leaves sometimes being hard to identify. Send to F. A. Varrelman, Department of Entomology, Columbia, Mo.

WASHINGTON NOTES.

David A. Bisset, who recently met with an accident while riding a motorcycle which he had just purchased, is still confined to the Emergency Hospital with a compound fracture of the knee. While he is improving, it will be quite a while before he will be able to do active work.

The store of F. H. Kramer, at 916 F street, Northwest, presents a most pleasing appearance decorated as it is for his annual chrysanthemum and celosia show and the store is daily crowded with visitors. The large greenhouse at the rear of the store is filled to overflowing with these and other flowers, palms, ferns and bulbs in dishes and jardineres.

The American Pomological Society held the first of its meetings in this city on Tuesday last at the National Museum. The initial meeting was called to order by the society's president, L. A. Goodman, of Kansas City, and addresses of welcome to the 200 or more delegates who were present were delivered by William F. Gude and by W. A. Taylor, chief of the bureau of plant industry on behalf of Secretary Houston, of the Department of Agriculture who was unable to be present. Responses were made by G. L. Tabor, of Florida, and W. T. Macoun, of Canada, and others. An exhibition of nuts and fruits displayed in the main hall and in the basement of the museum is attracting considerable attention.

COVER ILLUSTRATION.

Our front cover page this week carries a beautiful picture of the chrysanthemum display in the greenhouse at Garfield Park, Chicago, last week. Our correspondent informs us that the crowds were so great on Sunday, November 16, that the only thing to be heard was a policeman's "Move on," and nothing could be seen but the people.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $3.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Lilium Henryi. Special Offer Coupon.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Wilk, 155 W. 33rd St., New York.
Bulbs for Fall Planting.

Weeber & Don, New York.
Mammoth Narcissus Bulbs.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CAMELLIAS

Julius Roehrs Co., Rutherford, N. J.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.
New Roses and Chrysanthemums.

CHRYSANTHEMUMS STOCK PLANTS —Major Bonnaffon, Smith's Advance, $4.00 per 100. DEAL FLORAL CO., Deal, N. J.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

J. K. Alexander, "The Dahlia King," East Bridgewater, Mass.
For page see List of Advertisers.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE
Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 695

FERNS—Continued

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
278 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

Komada Bros., 1008 Vine St.,
Philadelphia, Pa.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

GLADIOLUS

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GLORIOSA

Julius Roehrs Co., Rutherford, N. J.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PINKS

HARDY PINKS—Large, bushy plants, $6.00 per 100. Cash. DEAL FLORAL CO., Deal, N. J.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Interstate Tobacco Co., Inc.,
1397-1399 Avenue A, New York.
"Tip-Top" Brand Tobacco Powder.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide.
New York City.
For page see List of Advertisers.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, strong plants, well berried, 4-in., $10.00 per 100; $80.00 per 1000. Cash. F. SOKOL, Worcester, Mass.

JERUSALEM CHERRIES—6-in. pots, full of berries, $20.00 per 100. Cash. DEAL FLORAL CO., Deal, N. J.

KENTIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Lilium Henryi.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., 12 West Broadway, N. Y
For page see List of Advertisers.

MUSHROOM SPAWN

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

PALMS, ETC.—Continued

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

J. M. Thorburn Co., 53 Barclay St., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POTASH

German Kali Works, Inc., 42 Broadway, New York.
For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.
New Roses and Chrysanthemums.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Plumosus and Cyclamen Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., 11 Warren St., N. Y.
Danish, New Zealand and Swedish Vegetable Seeds.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1661 North Leavitt St., Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

For List of Advertisers See Page 695

SEEDS—Continued

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SPIREAS

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEAS—SIX SUPERB NEW "SPENCER"

W. Atlee Burpee, Philadelphia, Pa.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Komada Bros., 1008 Vine St., Philadelphia, Pa.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

B. S. Slinn, Jr., 55 and 57 West 26th St., New York City.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

BEGONIAS FOR CHRISTMAS.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

CARNATIONS.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

FLOWER SEEDS FOR FLORISTS.

J. J. Wilson Seed Co., 79 Orange St., Newark, N. J.
For page see List of Advertisers.

FORCING SHRUBS AND PLANTS.

R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.

GRAND SPRING EXHIBITION.

John Young, Sec., 53 West 28th St., New York.
For page see List of Advertisers.

JERSEY-GROWN CALLAS.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

KILLARNEY BRILLIANT.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

LILIUM GIGANTEUM.

A. Henderson & Co., 369 River St., Chicago.
For page see List of Advertisers

NEW ROSE KILLARNEY BRILLIANT.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
For page see List of Advertisers.

POTASH.

German Kali Works, Inc., 42 Broadway, New York.
For page see List of Advertisers.

RED CAPES.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

SALVIA GREGGII.

Baker Bros. Co., Ft. Worth, Tex
For page see List of Advertisers.

SWASTIKA BRAND CANNAS.

Conard & Jones Co., West Grove, Penn.
For page see List of Advertisers.

FOR RENT

STORE ROOM

BEST LOCALITY

1310 11th Ave.

ALTOONA, PA.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

RHODE ISLAND HORTICULTURAL SOCIETY.

This society has made surprising strides in influence and numerical strength during the three years in which President Thomas Hope has been in office. That it has a good hold on the public of Providence was evidenced by the size and character of the audience that assembled at the Public Library on Wednesday evening, November 19th, to listen to E. H. Wilson of the Arnold Arboretum on the subject of plant collecting in Western China. Mr. Wilson's talk was illustrated by numerous stereopticon slides of great beauty showing the trees and flowers and rugged scenery of the vast country in which he had spent so many years, from the river planes up to the region of eternal snows. It was a great surprise to learn from Mr. Wilson how large a proportion of our esteemed garden subjects are of Chinese origin—even very many that are popularly accredited to Japan. The lecture course, of which this was a part, is under the direction of the entertainment committee of which H. L. Madison is the efficient and wide-awake chairman.

LECTURE AT NEWPORT.

J. Otto Thilow, of the Dreer Seed House, Philadelphia, Pa., lectured before the Newport Horticultural Society and Newport Garden Association, November 18, his topic being "The Canadian Rockies and Their Flora." A series of lantern slides accompanied the lecture, which gave a very clear idea of the grandeur of those lofty and snow-clad mountains with their many beautiful flowering plants in their season. It was a surprise to some in the large audience to learn from the lecturer that many kinds of plants under cultivation in our gardens are found growing more luxuriantly in the rocky regions. This was accounted for by the mountain plants being protected with a covering of snow during their long resting period, and necessary moisture supplied from the melting snows in their growing season. Among the many plants shown in the beautiful colored pictures and described by Mr. Thilow as he saw them in the Rockies were: Rhododendrons, Kalmia latifolia, aquillegias, asters, Lobelia cardinalis, cypripediums and poppies. This lecture was the first of a series to be given under the auspices of The Newport Horticultural Society and the Newport Garden Association. J. R.

CLUB AND SOCIETY NOTES.

The 47th annual meeting of the Minnesota State Horticultural Society will be held in the West Hotel, Minneapolis, Minn., on December 2nd-5th, 1913. The Minnesota Garden Flower Society, the Plant Breeders' Auxiliary, the Woman's Auxiliary, the Gardeners' Association of St. Paul and Minneapolis will meet at same time and place.

The joint fruit show of the Massachusetts Horticultural Society and the New England Fruit Show, at Horticultural Hall, Boston, last week, was a success in quality, quantity and attendance. Apples composed most of the displays and the competitive classes were well filled. N. S. Winson won the special prize for best new seedling apple of merit.

The monthly meeting of the Nassau County Horticultural Society was held November 12 at Glen Cove. In the monthly competition the awards were as follows:

Chrysanthemums, pink, Wm. Ross, 1st; chrysanthemums, yellow, Jas. MacCarthy, 1st; chrysanthemums, white, Wm. Ross and J. MacDonald equal 1sts.

The next meeting will take place Dec. 10 at 2 P. M., when election of officers will be held. Prizes will be offered for single violets, poinsettias and lettuce.

J. MacDonald, Cor. Sec.

The regular monthly meeting of The Westchester and Fairfield Horticultural Society was held at Greenwich, Conn., Nov. 14th. The exhibition committee reported the recent show a huge success in every respect. Chief interest centered in the nomination of officers, election to take place at December meeting. We are still adding new members, two being elected and five nominated at this meeting.

W. D. Deymon & Son's prize for carnations was won by A. L. Marshall; James Stuart, 2nd. The following also received awards: P. W. Popp, highly commended for vase of anemone chrysanthemums Miss Rose N. Gaze, a very pretty white excellent for decorative work; also honorable mention for carnations; Louis Wittman, vote of thanks for roses; Alex Geddis, vote of thanks for Japanese radish.

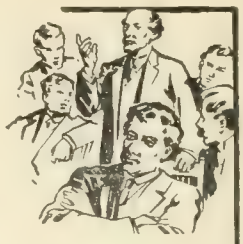
On account of extra heavy business Wm. Morrow's paper on "Grape Culture under Glass," will be given at December meeting. P. W. Popp offers prizes for roses at next meeting.

Owen A. Hunwich, Cor. Sec'y.

Poughkeepsie, N. Y.—Albert Tersteeg and William Godding have purchased the entire stock of the Sunnyfield Nursery Company. They were both former employees of that concern. The new firm will be known as the Poughkeepsie Nursery Company.



New Times, New Things



The old fertilizer formulas are giving way to the new. At every farmers' meeting one subject should be the fertilizer formula that will furnish a balanced ration to the crop and keep up the fertility of the soil. To do this the fertilizer should contain at least as much

POTASH

as Phosphoric Acid. Our note book has condensed facts essential in farmers' meetings and plenty of space to record the new things that you hear. Let us send one to you before your Institute meets.

A supply of these is furnished by request to every institute held in several states. We will be glad to send a supply delivered free of charge to every Institute, Grange or Farmers' Club Officer on request. It contains no advertising matter.

German Kali Works, Inc., 42 Broadway, New York

McCormick Block, Chicago, Ill. Bank & Trust Bldg., Savannah, Ga. Whitney Central Bank Bldg., New Orleans, La.
Empire Bldg., Atlanta, Ga. 25 California St., San Francisco

TO DESTROY CATERPILLAR RINGS.

Editor Horticulture:

Will you please ask Mr E. Jenkins through your columns if his caustic potash spray on dormant trees will get out the "rings" containing the winter nests of the tent caterpillar? This pest is by far the worst enemy of fruit trees now in Plymouth County.

Thanking you beforehand,

Yours, G. B.

Plymouth, Mass.

Replying to G. B., I am confident that the caustic potash spray will corrode the "rings" referred to in the above communication.

Ed. Jenkins.

Fergus Falls, Minn.—E. A. Isaacson, of Minneapolis, has purchased the greenhouses and business of S. N. Mehlin for $16,500.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Don't Neglect Fall Spraying **"SCALECIDE"** Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF.

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "H", 50 Church Street, New York City.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying
APHIS PUNK 40 Per Cent Strength For Fumigating
ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In Writing Advertisers Kindly Mention HORTCULTUR

FALL SPRAYING

Fruit trees, ornamental trees, evergreens, and all hardy stock susceptible to scale and other insects should be thoroughly sprayed before freezing weather sets in.

SCALINE will cleanse your trees and shrubs of San Jose, Oyster Shell and other hard scale, red spider, larvae of the aphis, grub of the locust borer, and other insect pests which secrete themselves in the crevices of the bark during the dormant season.

SCALINE is composed of a high grade of petroleum and the properties of the well known fungicide, **FUNGINE**; mixes readily without agitation; is used at a strength of one part to twenty parts water; containing no sediment can be applied through the finest spray nozzle, and requires no drenching of the plants, but simply misting them, to get effective results.

Gallon, $1.50; 10 gallons, $10; 50 gallons $37.50.

We answer inquiries.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — VERMINE
NIKOTIANA

British Distributors

BRITISH & AMERICAN FERTILIZING CO.

Liverpool, England.

Mention HORTICULTURE when writing



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

Obituary

C. L. Hoag.

Claudius L. Hoag, originator of the Niagara grape, died at his home in Lockport, N. Y., on November 11, aged 88 years.

William Galloway.

William Galloway, one of Philadelphia's best known pottery manufacturers, died Sunday, Nov. 16, after nearly three years' illness. Some twelve years ago he became secretary and treasurer of the Whilldin Pottery Co., at 713 Wharton street in which office his son, Walter Galloway succeeded him some 18 months ago. He was born in Philadelphia 75 years ago and for nearly 50 years has been connected with the manufacture of flower pots, architectural and garden terra cotta ware. The pottery up to some 15 years ago was at 18th and Market streets and at that time the improvements being made by the Pennsylvania railroad made the removal to another location necessary and he moved to 32nd and Walnut streets. He leaves a widow, one son and two daughters.

GREENHOUSES BUILDING OR CONTEMPLATED.

Fargo, N. D.—T. D. Smedley, one house.

Philadelphia, Pa.—Florex Gardens, range of houses.

Daniels Park, Md.—Mr. Lavalle, range of houses.

Hartford, Conn.—P. C. Griffith, North street, house 20 x 40.

Shenango, Pa.—Frank Trushel, two houses, each 60 x 300.

Baltimore, Md.—Greenmount Cemetery, Lord & Burnham house.

Hartford, Conn.—E. N. Spaulding, Mapleton avenue, house 20 x 100.

Rutland, Vt.—A. J. Courcello, 12 Evergreen avenue, addition, 21 x 86.

Stamford, Conn.—George L. Waterbury, 150 Strawberry Hill avenue, Hitchings house 19 x 77.

A WORLD-WIDE BUSINESS.

As an illustration of wide distribution of business, the King Construction Company, of North Tonawanda, N. Y., reports having received on the same mail, order for a King iron-frame greenhouse for the Government of Porto Rico to be built at San Juan and an order for a range of greenhouses to be erected in Minneapolis, Minn., and an inquiry for greenhouses from St. Petersburg, Russia.

PATENTS GRANTED.

1,075,330. Attachment for Hoes. Gunnard Carlson, Rockford, Ill.

1,075,676. Land-Roller. George Trompeter, Clearwater, Kans.

1,076,818. Process of Sweetening and Fertilizing the Soil. Lewis Cheeseman, Glenburn, Pa.

1,077,057. Plant Protector. Edwin R. Drake, De Land, Fla.

1,077,423. Plant Holder. Allen S. Myers, Altoona, Pa.

1,077,879. Detachable Bail for Flower Pots and Like Articles. George B. Hart, Rochester, N. Y.

1,076,230. Movable Hothouse. Arthur Pullen-Burry, Sompting, Worthing, England.

Re. 13,642. Fruit and Flower Cutter. Charles Frederick Billau, Cedar Rapids, Iowa.

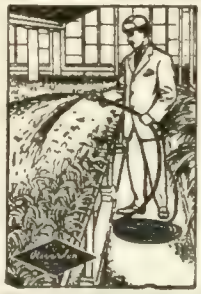
1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Please mention Horticulture when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

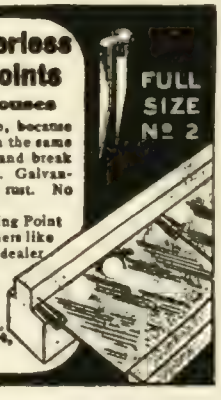

DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FflorIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA

FOR SALE
Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.
ROBT. ROSS JONES, Harrisburg, Pa.
Mention HORTICULTURE when writing

KING GREENHOUSES
Are in a class by themselves - Stronger, Sunnier, More Convenient than any other houses made. Don't take our word for it — investigate. Owners say that we offer the most for the money. Write us now.
KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N. Y.
All the Sunlight All Day Houses

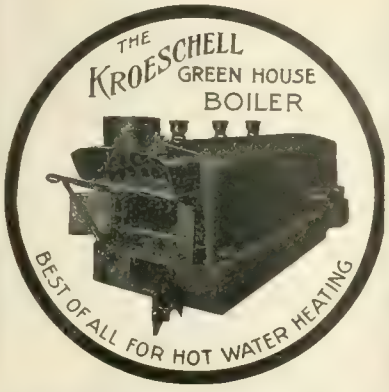
MASTICA

FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.


PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

Mention HORTICULTURE when writing

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass.
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

Another Proof That Our Iron Frame House Is Snow Proof

LAST week Wednesday, Ohio and parts of Pennsylvania were swept by a genuine mid-winter-like snow storm that put down the wires, tied up railroads and made many a grower anxious about his house.

The next day we received the following letter from C. W. Zuch & Sons of Erie, Pa.:

"The most severe snow-storm that we have had for sometime just passed over today. Toward evening we had to start propping our gutter houses, but the new Lord & Burnham house cleaned the snow all day.

The house Mr. Zuch referred to, is one of our sectional iron-frame vegetable honses, 72 feet wide and 458 feet long, which they erected.

Lord & Burnham Co.

SALES OFFICES

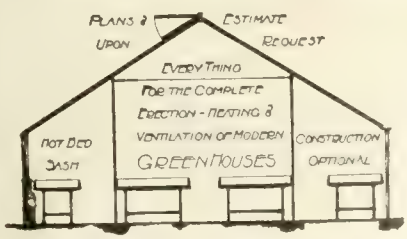
NEW YORK 42nd Street Bldg. | BOSTON Tremont Bldg. | PHILADELPHIA Franklin Bank Bldg.
CHICAGO Rookery Bldg. | ROCHESTER Granite Bldg. | TORONTO 12 Queen St., East.

FACTORIES

IRVINGTON, N. Y. DES PLAINES, ILL.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

NEW ROSE

KILLARNEY BRILLIANT

The Most Valuable Commercial Rose Ever Introduced



The entire stock of this superb Rose is grown at our nurseries at Sharon Hill. Come and see the Rose that every up-to-date grower will be compelled to plant, on account of its great superiority. Order now. While the advance sale of this Rose has been larger than any Rose ever sent out in this country, we can still book a few more orders for our first delivery in March, 1914.

OWN ROOT PLANTS. 2½-inch pots . . . $30.00 per 100; $250.00 per 1000
GRAFTED PLANTS, 2½-inch pots . . . 35.00 " 300.00 "

ROBERT SCOTT & SON

Sharon Hill - - - - Del. Co., Pa.

HORTICULTURE

Vol. XVIII. NOVEMBER 29, 1913 No. 22



FUNKIA LANCEOLATA ALBO-MARGINATA

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

FORCING SHRUBS AND PLANTS

Azalea indica. in variety
Azalea mollis in variety
Lilacs Roses

SHRUBS In Variety

Spiræas Helleborus
Lily=of=the=Valley

R. & J. Farquhar & Co.
BOSTON, MASS.

SPECIAL OFFER COUPON

KNOWING THAT
LILIUM HENRYI

is one of the best hardy Lilies under cultivation. we are offering as a special inducement for trial purposes

6 BULBS FOR $1.00 RETURN THIS COUPON WITH ORDER

Plant them now. Observe them next summer. Only one set to a customer. We reserve the right to withdraw this offer at any time.

JOHN LEWIS CHILDS, Flowerfield, L. I., N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE.

We grow large quantities of
Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List
R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

SPECIAL PRICES WITH LIBERAL EXTRAS
WE NEED ROOM—MAIL YOUR ORDER TODAY

	30	100	1000
2½ in. **Chinese Primroses,** varieties, mixed		$3.00	$25.00
3½ in. **Chinese Primroses,** in bud and bloom		7.00	65.00
2½ in. **Primula obconica,** fancy mixed		2.50	22.50
3½ in. **Primula obconica,** in bud and bloom		5.25	50.00
2½ in. **Cinereria,** choice mixed.		2.25	20.00
3½ in. " excellent stock.		5.00	45.00
3½ in. **Snapdragon,** white, pink and yellow		6.50	60.00
2½ in. **Marguerite,** white and yellow		2.50	22.50
2½ in. **Marguerite,** Mrs. Sander.		3.00	25.00
2 ¼in. **Double Alyssum,** for cut flowers		2.50	22.50
2½ in. **Asparagus Plumosus,** nice plants		3.00	25.00
3 in. **Asparagus Plumosus,** nice plants		6.00	55.00
2½ in. **Asparagus Sprengeri,** excellent stock		2.50	22.50
2½ in. **Smilax,** large plants		2.25	20.00
4 in. **Begonias,** flowering, assorted kinds		10.00	90.00
4 in. **Cyclamens,** choice mixed.		10.00	95.00
3½ in. **Violet Plants, Maria Louise and Lady Campbell**		3.25	30.00
3½ in. **Violet Plants, Princess of Wales**		4.00	35.00
2¼ in. **Geraniums, Nutt, Poitevine, Viaud, Grant, Buchner, Montmort, etc., etc**		2.50	22.50
2¼ in. **Heliotrope,** white, light and dark blue		2.75	25.00
Callas, from pots		8.00	
Pansy Plants, choicest mixed			3.50
Field-Grown Vincas, variegated and green		4.50	40.00

15,000 Ferns, to close out, in assorted varieties, at 10c., 12½c. and 15c., each. Try some.
1,200 Scottii and **Roosevelt Ferns,** large and excellent stock, 20c. and 25c., each.
Araucaria excelsa, 60c., 75c. and $1.00, each.
And an abundance of other stock.
Correspondence solicited.

ALONZO J. BRYAN, Wholesale Florist
WASHINGTON NEW JERSEY

PLANTS for CHRISTMAS

FERNS, Assorted, 8 to 10 kinds, $4.00 per 100
ASPLENIUM Nidus Avis (Bird's Nest Fern), 2 in. pots, $25.00 per 100
CIBOTIUM Schiedei, 6 in. pots, $1.50 each
BOSTON and ROOSEVELT FERNS, 50 cents to $5.00 each.
BEGONIA Lorraine and Cincinnati, 50 cents to $2.50 each
POINSETTIAS, 4 inch pots, 25 cents each.
POINSETTIAS, 5 inch pots, 50 cents each
POINSETTIAS 9 and 10 inch pans, $2.50 and $3.00 each
CYCLAMEN, 50 cents to $2.50 each.
PRIMULA Chinensis and Obconica In bloom, $25.00 per 100
AZALEAS, All kinds and sizes
ARAUCARIAS, From 50 cents to $6.00 each
DRACAENA Terminalis, 50 cents and 75 cents each.

A. M. DAVENPORT
WATERTOWN, MASS.

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

MATCHLESS

WINNER OF TWO GOLD MEDALS

Do Not Fail to get in your order early for **Matchless,** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class — twenty-one vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY. **(All stock sold to Feb. 1)**

PRICE FOR ROOTED CUTTINGS: $12.00 per 100; $100.00 per 1000

(ORIGINATORS)

COTTAGE GARDENS CO., Inc.

QUEENS, NEW YORK

In Writing Advertisers Kindly Mention HORTICULTURE.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street **WOBURN, MASS.**

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.00 per 100; $25.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.

Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....759
Albany Cut Flower Ex....750
Alexander, J. K.740
Allen, J. K.....750
Am. Importing Co. 747
Anderson, S. A..747
Aphine Mfg. Co.757
Aschmann, G....726
Ayres Co., S. Bryson 743
Badgley, Reidel & Mayer 750
Balsley, Harry..758
Barrows & Son.728
Bayersdorfer, H. & Co. 751
Bay State Nurseries 741
Bloomingdale's, 745
Bobbink & Atkins 741
Boddington, A. T. 739
Bolgiano & Son, J. 743
Boston Florist Letter Co.....748
Breck, J. & Sons.743
Breck - Robinson Nurseries 741
Breitmeyer's, J. Sons 745
Brookland Gardens 727
Bryan, Alonzo J.726
Burnett Bros....743
Burpee, W. A. & Co. 743
California Florist 746
California Seed Growers' Asso.743
Cooke, Geo. H..747

Page
Chicago Carnation Co.....748
Childs, John Lewis 726
Conard & Jones Co. 740
Consumers Fertilizer Co.....757
Clarke's, D.Sons.745
Conine, F. E. Nursery Co....740
Cottage Gardens Co. 727
Cowee, W. J....748
Craig, Robt. Co.726
Dards 745
Davenport, A. M.726
Dawson, H. S..728
Detroit Flower Pot Co.....758
Dorner & Sons Co. 728
Dreer, H. A.741-758
Dunlop, John H.746
Dysart, R. J....748
Eastern Nurseries 728
Edwards Folding Box Co.....748
Elliott's, W.Sons.743
Eppstein, Julius.746
Ernest, W. H...758
Esler, J. G.....759
Eyres 747
Farquhar, R. & J. & Co.....726
Felix & Dykhuis.742
Florists' Tel. Delivery Asso....744
Ford, W. P.....750
Ford, M. C.....750
Forrest, Frank H. 746
Fottler, Fiske, Rawson Co....743

Page
Freeman Orchid Co. 739
Framingham Nurseries 741
Froment, H. E..750
Galvin, Thos. F. 746-747
Gasser, J. M. Co.746
Goodsell, P. H..741
Grey, T. J. Co..743
Gude Bros. Co..746
Hail Association.759
Hall & Robinson.751
Hart, Geo. B....746
Heacock, Jos....726
Heinecken, Otto.743
Henderson, A...726
Hess & Swoboda.745
Hews, A. H. & Co. 758
Hill, E. G. Co..748
Holland Nurseries 740
Hilfinger Bros...758
Hitchings & Co.759
Holm & Olson..745
Hudson Carbon Co. 757
Industry Moss & Peat Co.....739
Johnson, J. Oliver 743
Jones, Robert Ross 759
Joy Floral Co..746
Kasting, W. F. Co. 751
Kervan Co.....750
Keller, J. B.Sons.745
Keller, J. M. Co.728
King Construction Co.....758
Komada Bros...747
Kramer, F. H...746
Kroeschell Bros.759

Page
Kuebler, W. H..750
Lager & Hurrell.739
Lemon Oil Co..756
Leonard Seed Co.743
Leuthy, A. & Co.728
Loechner & Co..742
MacMulkin, E...746
May & Co., L. L.747
McCarthy, N. F. Co. 748
McCallum Co....751
McConnell, Alex.745
McCray Refrigerator Co.....747
Metropolitan Material Co.....758
McHutchison & Co. 728
McKenna & Son, P. 746
McKenzie, John.728
McManus, Jas...750
Meyer, J. C. Thread Co.....747
Michell's Seed House 742
Michigan Cut Flower Ex....748
Millang, Chas...750
Millang, Frank..750
Miller, A. L.....740
Montreal Floral Exchange 750
Moore, Hentz & Nash 750
Murray, Samuel.745
National Nurseryman 741
N. E. Nurseries.740
Nicotine Mfg. Co.757
Niessen, Leo. Co.748
N. Y. Stable Manure Co.....757
Oechslin, Ernest.740
Oechslin, Frank.727
Ouwerkerk, P...740

Page
Park Floral Co.745
Palmer, W. J. & Son 747
Parshelsky Bros.759
Penn the Florist.746
Pennock - Meehan Co. 749
Pierce Co., F. O.758
Pierson, A. N...728
Pierson, F.R.Co.747
Pierson U - Bar Co. 760
Plant Food Co., 20th Century..757
Poehlmann Bros. Co. 748
Pollworth, C. C.745
Pulverized Manure Co.....757
Quaker City Machine Co.....759
Randall's Flower Shop 747
Reed & Keller..750
Reid, Edw.....751
Reinberg, Peter.748
Reuter's 747
Rice, M. Co.....746
Robinson Co., H. M. 750
Roehrs, J. Co...739
Roland, Thomas.728
Rolker, A. & Sons 728-758
Rosery, The....745
Sander & Son...739
Scott, John.....728
Scott, Robt. & Son 740
Schling, Max....746
Schwake, Chas. & Co.....727
Sheridan, W. F.750
Sharp, Partridge & Co.....759
Siebrecht, Geo.C.750

Page
Siggers & Siggers 758
Skidelsky, S. S. & Co.....743
Slinn, B. S.....751
Smith, P. J.....750
Smith & Co., E. D. 741
Smith, W.&T.Co.741
Smyth, Wm. J..745
Sprague, J. H..739
Stearns, A. T. Lumber Co....759
Stoothoff, H. A. Co. 756
Stumpp, Geo. M.745
Totty, Chas. H..727
Thorburn, J. M. & Co.....743
Traendly & Schenck 750
Valentine, J. A..745
Van Assche, F..759
Vincent, R., Jr., & Sons Co....726
Wants, For Sale.755
Ward, R. M. & Co. 728
Weber, F. C....746
Weeber & Don..743
Welch Bros.....748
Whittier & Co., W. B. 741
Wilson, J. J. Seed Co.....743
Wilson, Robt. G.745
Winterich, C.....740
Wood Bros.....728
Woodrow & Marketos 751
Young, John.694-750
Young & Nugent.745
Zangen, O. V...743
Zinn, J. A.....746
Zvolanek, Ant. C.743

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 752,753,754,755

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per caae of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

Not how Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson. Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

CYCLAMEN

Best strain in existence.

4 inch	$25.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.
Bedding Plants and Roses

AZALEAS

Extra fine Plants of the Christmas and Easter Variety.
BOSTON FERNS, ARDISIAS
Send for prices.
JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants

Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBR
NEW Y
BOTAN
GARD

Care of Carnations

Houses that were planted early will soon be coming into flower. By this time the young feeding roots will be coming nearer the surface and will welcome a light mulch of well-rotted cow manure and loam in equal parts. Before mulching give the surface a fair sprinkling of bone meal. Apply the mulch about half an inch deep. Syringing should now be done only in the morning and on bright days so they will have a chance to dry off before night fall. Plenty of ventilation on all clear days is especially necessary to keep the growth from becoming soft and weak. When the plants show a fair crop of flowers give liquid manure feeding about once a week. As a sure preventive for fly fumigate once a week. Follow up disbudding closely.

Poinsettias

Avoid wide fluctuations in night temperatures; 58 degrees to 60 degrees at night should be maintained, and in order to do this fire heat is necessary. No plants are more easily and speedily ruined by an excess of moisture at the roots than poinsettias. We have arrived at the critical time for poinsettias. Careful attention is required as to ventilaton, firing, etc., and watering carefully from now on is of great importance. It cannot be good policy to apply water which is near the freezing point. Some plants may not be as particular in this respect as others, but poinsettias will not stand for sudden changes in temperature or for water much below the temperature of the house they are in. Do not feed at all until the bracts are forming. Then give it twice a week in moderately weak doses. Some soot with the manure helps to keep the leaves dark green.

Gardenias

There is no reason why gardenias should not prove a paying crop if the plants are properly grown. We are arriving at a critical time with gardenias, more especially those intended for midwinter flowering, and of course most growers will want to get a good number of flowers in the cold months, while prices are high. The roots of gardenias love to be warm. The soil dries out better and the percentage of dropped buds will be materially less when a nice heat is kept in your pipes from this out. When water is supplied let it soak the soil thoroughly and let it dry out well before giving any more. If the soil is porous, as it should be, there will be no trouble with surface scum. After a time and when the roots have penetrated all the soil in the bench, in the event of the plants showing signs of exhaustion, the benches should be top-dressed with good loam and manure. Gardenias require a night temperature not much less than 70 degrees and a humid atmosphere continually.

Schizanthus

While schizanthus are tender and easily injured by frost, they, on the other hand cannot tolerate a warm greenhouse and flowers grown in a high temperature are vastly inferior. So see that they are kept in a cool house of about 45 degrees. But in order to forward plants a few of the more advanced can be given a sunny, airy house with a minimum temperature of 50 degrees. Any batch coming on for later flowering should not be allowed to become pot-bound. These are quite thirsty subjects and, once their receptacles are full of roots, want as much water as chrysanthemums, with weak liquid manure, in addition, every third or fourth watering. This is a suitable time to make an additional sowing for early spring flowering. Sow thinly in pans or flats and transplant just as soon as they can be handled. Always grow as near glass as possible, or they will get badly drawn.

Veranda Boxes for Winter

There is no doubt but what the larger cities are more in need of something green during the winter months. Yet even in the suburbs and smaller towns there are occasional calls for stock of this kind, and in most cases it will require but little pushing on the part of the local florists to do a most profitable business in this line. Bay trees, hollies, aucubas, boxwood, junipers, spruce, pine, arborvitae and biota, which are most attractive, all can be supplied at reasonable prices from our nurseries at home. Now is a good time to get these fixed up into shape. Give the boxes good drainage so that when the ground is not frozen hard the water can run off. A somewhat heavy soil rather than a sandy mixture, and one but sparingly enriched, should be used for this kind of work. In order to show these plants up to their best they are better done early so the soil can have a chance to become somewhat settled before the real cold weather sets in.

Verbenas

Propagation of verbenas should start in earnest now so as to work up a good lot of stock, this being the only means of increasing named varieties or special colors. Trim the foliage so as to obviate crowding in the sand and as well to let the air circulate among the cuttings. They will root in a cool end of the propagating bed and should be kept moist and shaded until rooted.

Mr. Farrell's next notes will be on the following: Christmas Azaleas; Lilies for Easter; Manure for Florists' Crops; Propagating Carnations; Soils for Winter; Freesias for Easter.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Start Early Vinery

As the first of December approaches our thoughts are turned to the starting of the fruit houses that are to furnish the early crops. The fruit growers' year seems to start from December 1st, rather from January 1st for there are several houses that can be put into motion about that time followed by the others at regular intervals if a succession of early fruit is required. Before starting any it is best to consider when the ripe fruit is needed and where there is any number of houses to be grown make up a list giving the date for starting each one. Establishments that are not growing any pot-vines will rely on the early vinery for the first grapes, which can be started on December 1st. See that all cleaning has been thoroughly done also that the border has been overhauled. Probably the border has been kept on the dry side during the last few weeks in which case give it some water, but do not water at this time if the border does no require it. There seems to be an idea prevalent that the border must be thoroughly soaked with water at the time the vines are started into growth; this is a mistake. Pot vines will be sure to dry out once in a while during the dormant season and for this reason any that are not started should be looked over occasionally and all should be watered when they are started. To ensure an even break the vines should be bent over in a way that the rush of sap to the apex is retarded and all the buds get an even share, which will mean an even break. Young vines will need tying down to get the bend on to them; older ones will bend of their own weight if the string that supports them is put in the right place. Syringe the vnes with tepid water twice daily and keep the house moist, which, with the higher temperature will start the sap to flow. A night temperature of 45 degrees, advancing from that to 50 by day during cloudy weather will suit them for awhile. Allow the house to go up to 60 degrees with sun heat. Very little air will be needed for quite a while but a crack should be got on daily for an hour at the least. Close down early (soon after noon hour), when the second syringing should be given.

Early Peach House

What has been said of the early vinery applies to the early peach house in most points. Pot trees should be started first as they respond to treatment easier than the trees in the borders. Should the two be started together the trees in the pots should have ripe fruit ten days earlier than those in the borders. Keep a night temperature of 40 to 45 degrees with the usual advance by day. We find Duke of York peach and Cardinal nectarine the earliest as well as being among the most reliable in their own sections. Have all the trees correctly tied to the trellis before starting the house.

Strawberries

With the starting of the early vinery and the early peach house a batch of strawberries can also be got on the move. These early houses are usually furnished with shelves to accommodate strawberries and no better place can be found for them. Here is where the best berries are produced both for size and flavor. They are near the glass, at all times getting the maximum amount of sun and generally being placed near the ventilators they get more air than when being grown on the benches. If these shelves are filled up at the time the house is started the temperature will suit them until the berries are ripe. Where they have to be shifted around occasionally to get the right temperature it means a lot of work and does the plants no good; in fact it is detrimental to the berries after they get large and soft enough to feel a bruise. Look the plants over before they are brought into the house, removing any dead or yellow leaves; also have the pots washed. Let them stay a few days until the soil has time to dry out a little, when each pot should be rammed to fasten the soil again which no doubt has been loosened by frosts or rains. Be sure the soil is on the dry side before attempting to ram it.

Sow More Melons

The first of December is a red letter day in the melon-growing section as well as the hard-wooded section. Fruit that is ripened from the new year up to the middle of April cannot be relied upon to be always of first-class flavor; the weather will have a big say in it. During the real cold days it is impossible to get much air on to the ripening fruit. Even suppose it were possible by having an excessive number of pipes in the house, that very cold air on the fruit would not be the same benefit to it that it would be were it naturally warm. Seeds sown now will produce ripe fruit about the middle of April and can be relied on to be of good flavor as the better weather is increasing on them as they develop. Stick to the winter varieties for this sowing; Hero of Lockinge and His Eminence are the two best. Sow the seeds singly in three-inch pots that have been well drained and washed clean. If the soil is put in dirty pots a difficulty will be experienced when the time comes to turn them out. Do not press the soil down at all, but leave it to settle with the watering.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Sod Heaps

This was commented on some time back, yet no doubt there are many places that have not begun to put up any soil for the next season. There may be an early freeze that will put all work with the soil at a standstill, so if the soil heaps have not been made no time should be lost in putting them up. Good cow manure is the proper thing to lay between the layers of the sod, and where it can be had there is nothing better. Horse manure is too light, and we would not use it unless there was nothing else that could be had. Put a six-inch layer of manure between each two layers of sod which should be about a foot thick. In plowing the field where the sod is to be taken, do not plow very deep,—just deep enough to allow the men to pick up the sod nicely. We would not advise using loose soil in the heaps, unless it was necessary to do so. Using sod that is picked up with the fork is the best, and where it is possible to obtain all such, the heap will be a very good rose soil when it is turned over in the spring. We would not recommend mixing any bonemeal into the soil at this time of the year, unless it be the very coarse bone, such as is used extensively by fruit growers under glass. It is bone broken up into pieces about as big as peas, and although it is very slow in action you will find the little rose roots wrapped right around it when you take the plants out the following spring.

Picking Up the Dead Leaves

There will be some dead leaves around the plants even in the best cared-for houses, and to prevent disease and insects keep these picked up and keep everything nice and clean. Do not syringe them under the bench as is the custom with many, but pick them up and burn them as soon as possible after each syringing. The walks should be swept up clean, too, this helping to do away with large numbers of red spider and greenfly, for if there are any present in the house, some of them will come down with syringing, and there is no safer way to dispose of them than to burn them. Of course in the houses that are kept clean there will be very few, but even then there is likely to be one here and there. Better destroy it right there, so that it will not have a chance to breed its thousands of sons and daughters.

The Christmas Crop

With Christmas only a little way off, growers will be looking forward to the time when all the cut flowers are a little higher in price than at any other time of the year. The Beauties will at times come in for Christmas and the growers who have a nice promising house of these will realize a good profit. All buds that will be fit to cut on Christmas will be well formed now, or should be well formed, or they may be too late. It will not be advisable to run the houses warmer to bring them into bloom. It is better to miss the Christmas prices and have plenty of stuff during January and February, when the prices are equally as high, and sometimes higher, and far more steady. Let us hope there will be no blizzard to paralyze the trade, and that the business will be good.

Heavy Wrapping Paper

The prices that flowers will bring, will be too high to risk any frozen flowers so have plenty of heavy paper on hand, and as soon as the weather gets so cold that it will not be safe to ship the flowers the ordinary way, wrap up the boxes with the heavy paper on the outside. This will do wonders in keeping the frost out, as one sheet of good paper on the outside of the box will do the work of two sheets on the inside. Put plenty of paper on the inside of the box, too, for this is very important. As a rule newspaper can be bought very cheap, and to use it is no extra labor, so do not be afraid to use plenty of it.

Liquid Manure

As it now looks, we can safely say that the cold weather will prevail and it will not be harming the plants to use a little of liquid manure every now and then, using it quite weak to begin with, and gradually increasing the strength until it is as thick as it will run through the pipes. At times manure water is used much earlier in the season and where the plants can take it, it is very well to do so, giving the plants all they will take. As a rule, however, we seldom use it until after the turn of the year, in the Beauty houses, unless the weather is cold enough before the new year. In applying, make sure that the plants are wet enough, as it may damage them somewhat to water them with the manure water when they are on the dry side. Not that they have to be soaking wet, but wet enough so that the roots will not make a hurried grasp on the water as it leaves the hose. Good cow manure is the best thing to use for the making of liquid as it contains all the necessary elements, in about the right proportions. Where it can not be had there are various substitutes that will have to be compounded to make up as nearly as possible the same liquid that cow manure would make.

SPECIAL HOLIDAY NUMBER

ALWAYS A WINNER FOR WIDE AWAKE ADVERTISERS

Second Issue In December

Copy for Advertisement must reach this office not later than Tuesday, December 9. EARLIER IF POSSIBLE.

HORTICULTURE

VOL. XVIII NOVEMBER 29, 1913 NO 22

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.
Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:
One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:
Per inch, 30 inches to page..... $1.00
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Funkia lanceolata albo-marginata.
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Carnations — Poinsettias — Gardenias — Schizanthus—Veranda Boxes for Winter—Verbenas—*John J. M. Farrell* 729
FRUIT AND VEGETABLES UNDER GLASS—Start Early Vinery—Early Peach House—Strawberries—Sow More Melons—*George H. Pensen*..... 730
ROSE GROWING UNDER GLASS—The Sod Heaps—Picking Up the Dead Leaves—The Christmas Crop—Heavy Wrapping Paper—Liquid Manure—*Arthur C. Ruzicka* 731
FUNKIAS OR PLANTAIN LILIES—*Richard Rothe*, Illustrated 733
ORIGINAL GARDENERS—*George F. Stewart*..... 734
LOCKJAW *R. T. M. Gordon*..... 734
CHRYSANTHEMUM WILLIAM TURNER, Illustrated 734
THE EXHIBITIONS—The Cleveland Show—The Portland Show Illustrated..... 735
Chrysanthemum Show at Minneapolis Park Greenhouses, Illustration—The Poughkeepsie Show..... 736
BRITISH HORTICULTURE—*W. H. Adsett*..... 736
CLUBS AND SOCIETIES—American Rose Society—American Sweet Pea Society—Chrysanthemum Society of America—Club and Society Notes..... 737
A TULIP BED, Illustrated..... 738
ANGIOPTERIS EVECTA—*W. A. Manda*..... 738
SEED TRADE—German Notes—Notes..... 742
THE GARDENER'S PLACE—*Vernon T. Sherwood*.... 742
OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 745
Flowers by Telegraph..... 746
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago..... 749
Cincinnati, New York, Philadelphia..... 751
St. Louis, Washington..... 756
OBITUARY—Mrs. Avery—Charles W. Blatchley—John de Wolf—Harley James..... 758
MISCELLANEOUS:
The First Snow Fall, Poetry..... 736
Number, Jlease? *Geo. C. Watson*..... 736
New Corporations..... 738
Philadelphia Nates..... 738
Greenhouses Building or Contemplated..... 738
Two Caterpillars That Have Troubled Florists..... 739
Fireblight..... 739
Catalogue Received..... 739
Personal..... 740
News Notes.....738-746
Fires..... 742
Chicago Notes..... 747
Publications Received..... 756

A valuable primrose

On the subject of hardy primulas, one of our contemporaries mentions four species as of especial value, but without including the one which has proved itself to be the best for this climate, viz., Primula pulverulenta. This species produces flower spikes fully three feet tall and bearing seven to eleven whorls of large dark red flowers. The peculiar powdery deposit on the stems and foliage, whence its specific name, is an additional attraction. It is one of E. H. Wilson's earliest finds on a Veitch expedition to the Chino-Thibetan border-land. It is very floriferous, remaining in flower from six to eight weeks. A portrait of this primula was published in HORTICULTURE two years ago.

Public spirit; a big asset

It is a pleasure and an inspiration to see how the city florists in Cleveland got together with one common impulse to help make their flower show a success. This fact, together with good leadership and a wise and liberal publicity policy, appears to have been the key to the pronounced success which was achieved in the face of what looked to be almost insurmountable difficulties. The spirit of loyalty to one's home town should be more generally cultivated. There are places where it is a very weak and sickly cutting. Prejudices must be ignored, old grouches forgotten and the immediate selfish interest of the individual must be pushed aside in the shoulder to shoulder alliance and organized effort for the common welfare, if we are to do our full duty to the community in which our lot is cast and eventually to ourselves. "Every man for himself" is a slogan that will ever conduce to civic dry-rot and decadence, and the man who makes this ungenerous sentiment the guide of his business policy will surely have to bear his share of the retrogression which is the invariable penalty for a community which is not a community but only an aggregation of individuals.

Get busy

A fact beyond question is that we in this country are on the verge of the greatest gardening revival America has ever seen. The unprecedented demand for hardy herbaceous material, ornamental shrubbery and evergreens, also garden bulbs, etc., as for instance the Darwin tulips and narcissi, is a sufficient index to the horticultural tendency of the times. Foreign houses are more quick to see it than the majority of our home establishments and are zealously preparing to get as much as possible of the lion's share of the business that is coming. If loyalty to the business enterprises of one's home town or section is a commendable virtue so also is loyalty to the business interests of one's country in a broader sense. As good Americans we do not like to see money going steadily out of this country for goods that are being produced in equal quality on our own soil but when, as is often the case, our nurserymen are unable to supply the goods, then the fault lies at their own door. HORTICULTURE frequently has requests for information as to where this or that new and desirable plant may be obtained and we are often regretfully compelled to direct the inquirer to foreign sources of supply. There is every inducement in the situation and out-look for our nurserymen to take a more advanced position. It ought not to be ever true that material of this sort, on which propagation is simple, cannot be procured from American sources.

Funkias or Plaintain Lilies

The indiscriminate recommending of hardy herbaceous plants by the sweeping statement: "Growing anywhere; requiring little or no care," is less noticeable today than it was from five to ten years ago. The progressive grower and nurseryman has learned by experience. Such statements are apt to mislead to utter neglect of herbaceous plantations. It is true there are a few species of flowering garden perennials making extraordinary efforts for an admirable showing when left in a semi-wild state. Polygonum, the knot-weed and Bocconia, the plume-poppy, may be mentioned as instances. This, however, being exceptional the fact remains that without proper care and previous preparation of the ground disappointments are inevitable. Strict adherence to this rule has been chiefly responsible for the wonderful advance of herbaceous flower gardens and the present high standard of their contents. Funkias, as popular inhabitants of those gardens offer many and various opportunities for effective employment. The marked ornamentality of the foliage of a number of species is an attractive feature itself. The large-leaved bluish green sorts, such as Funkia Sieboldii, Fortunei, Fortunei glauca and robusta we use in shore plantings around ponds and along creeks. They possess the natural characteristics of certain low land and swamp vegetations. In southern latitudes and throughout the Middle Atlantic States, most plantain lilies prefer a half shady position. Taking advantage thereof we may place clumps under tall-trunked trees in the thinly wooded section of home grounds and natural park landscapes. Associated together in numbers from 3 to 5, in an informal way, they aid in making the scenery richer and our walks through this section more enjoyable. Our picture of Funkia lanceolata albo-marginata represents the idea of arrangement and its effect.

The very appearance of some species of plantain lilies suggests their use for bordering purposes. Noteworthy among them is the low-growing Funkia Japonica aureo-variegata conspicuous by its strikingly handsome foliage; also Funkia undulata media picta and the small narrow leaved white flowering Funkia alba minor. The possibility of similar employment of stronger growing kinds is shown by the cuts of Funkia cœrulea and the original Funkia lanceolata. Both are plain green-leaved sorts, bearing lavender blue flowers during August and September.



FUNKIA OVATA



FUNKIA LANCEOLATA

In stateliness and beautiful foliage none eclipses Funkia ovata albo-marginata, identical with Funkia robusta elegans variegata. It is a species calling for a favorable position where it can be fully admired as a single plant. In conclusion I wish to call attention to Funkia subcordata grandiflora. I have been using it as specimen-plant on composite herbaceous borders, and also, in limited numbers naturalized under tall tree-growth. Going further, I do not hesitate recommending this old-time species for high class ornamental work in any modern formal garden, providing a half-shady place can be given. Exposed to the full midday sun the foliage suffers and the pure white deliciously fragrant flowers are apt to get burned during the hot spells of August. Planted on a border running along the north front of a residence. Funkia subcordata grandiflora proves instrumental in solving the always more or less difficult problem of establishing an attractive permanent growth in a shady situation.

Distinguished by a remarkable longevity and extraordinary hardiness plantain lilies do fairly well when left in a semi-wild state. To grow them to perfection, that is, to develop and enjoy their full beauty, requires deeply dug and well enriched ground, besides ample space for free growth. Propagating can be easily done by divisions during early spring or in fall. To obtain large ornamental specimens, plants must be left undisturbed for a number of years.

Richard Rothe

Riverton, N. J.

ORIGINAL GARDENERS.

HORTICULTURE has furnished us lately with serveral articles on "The Gardener and His Field." They are like almost everything else that is written, argued from the standpoint of ideal conditions. I suppose it is best for us to have an ideal set before us, or we might fall asleep by the way. Some gardeners I have known to be fond of sleep, did not climb very high in their profession, neither have some of us who are conceited enough to believe we are very much awake. I should like to read a well written book entitled, "The Success of the Gardener Who Has Failed, and the Failure of the Gardener Who Has Succeeded."

Carlyle wrote a book I believe on clothes, but I never remember seeing clothes advocated as making harmony between the gardener and his employer before. I like good clothes, but I have been taught—in fact I have read in a popular and very ancient volume, that these coverings were the result of anything but what we ought to be proud of. I have been a gardener since 1883, and during the intervening time I have worked under gardeners that were employed by royalty and other titled nobility in Great Britain, also under gardeners for American millionaires. Some of these men stood high in their profession, and held the position of friend as well as gardener to their employer, but the enviable position of friend was not attained by attire, for these men were always at the dirtiest end of the job on hand, thereby gaining the confidence and goodwill of their assistants, which is the aim of every true leader of men. It was their originality that gained the good will of their employer, and if I observe human beings correctly, it will do so not only in horticulture but in every department of life. In all walks of life the majority of us are anything but original, and I venture to assert that this great failure is the cause of lack of harmony between the gardener and the owners of estates. These gentlemen do not want what everybody else has; they are tired of sameness and that is one reason why the rich are making homes in the wilds, especially in summer. But after all is said and done, there are some mighty bad and unreasonable employers, and some very poor gardeners who are as unreasonable as they are, and how to get the two hitched would require more originality than I know of. Nothing perfect "under the sun"—not even originality.

GEORGE F. STEWART.

Medford, Mass.

LOCKJAW.

Editor HORTICULTURE:

In last week's issue of your paper Mr. Jenkins had an interesting article. Interesting in many ways, and many of your readers, and especially rose growers after reading would be liable to get the shakes. The letter is so peculiarly shaded that in reading it one gets the impression that the late James Brydon died from the effects of a scratch from a rose thorn. Nothing could be more misleading. Mr. Brydon, as I have always understood, got his hand scratched on a brass door knob when entering one of the green houses at South Lancaster, which later developed into blood poisoning.

We have a lot of stuff thrown at us each week by correspondents and others, and we have to wade through it, to get the real meaning of the article. There are some private gardeners who, getting hold of a Latin name, can weave a story round it that would almost make us believe that Noah was born in 1913. The rose grower has his own troubles without having any more added. It takes years sometimes to build up a trade in a commodity; then along comes some disturber and sets up a needless hue and cry which reaches the public. Money invested, experience, labor, everything is at a loss. I have had my arms scratched, and the red blood flowed and cow manure in contact at that and never have had ill effects. The most of the rose growers have gone through the same experience and do it every day. We don't know what may be in store for us in the future, but looking back many years, as far as my vision carries me, I never knew of a case where lockjaw was caused by a scratch from a rose thorn. When a boy I remember a gentleman who cut his thumb in cutting a piece of laurel, and died in a few hours. A few weeks ago a titled lady in London was stung by a wasp, and died before help could be had, and, lastly, in Natick Hospital there is a young man dying from lockjaw, the result of having stepped on a rusty nail. If Mr. Jenkins had known of those cases would he have blamed the rose thorn?

R. T. MCGORUM.

CHRYSANTHEMUM WM. TURNER IN OKLAHOMA.



The following letter which came to the office of HORTICULTURE a few days ago tells the story of the picture here shown. Oklahoma seems to be all right:

HORTICULTURE, Boston, Mass.

In your issue of HORTICULTURE, November 15th, I noticed in the account of the Connecticut Horticultural Society (Chrysanthemum Night) where a vase of William Turner, shown by Mr. Cebelius, created quite a sensation on account of some of the blooms measuring 23½ inches in circumference. I enclose photograph of three William Turner blooms measuring 26¼ inches in circumference. I only had 25 plants and the blooms all measured from 23 inches to 26¼ inches in circumference. They were grown in a bench, the soil being three inches deep.

JAMES RUST, Gardener to Charles Page,
Sand Springs, Olka.

William Sim, Cliftondale, Mass., has a house of hybrid gerberas, some just showing buds. They are seedlings and planted on benches. Mr. Sim is not sure of their success as the gerberas carry a long tap root and solid beds might be more to their liking but, like all true investigators, he is trying them out and if they are a success there will be plenty of imitators.

THE EXHIBITIONS

THE CLEVELAND SHOW.

This ambitious exhibition widely advertised in advance among the trade and the public was a pronounced success in quantity and quality of exhibits, despite the handicap of the great snow storm, and the attendance was surprisingly good. The hall, a vast floor of over an acre and a half, was well decorated and the arrangement of the exhibits was very creditable, although the numerous heavy columns and low ceiling were somewhat of a drawback to effective work. The show continued from Thursday, Nov. 13, to Sunday, 16th. Carnations were especially staged on Thursday and roses on Saturday. The carnation display was very extensive and of record quality. The rose display was small in comparison, but it was exceptional in the number of meritorious new candidates for favor as commercial forcing roses and in the high quality throughout. The showing of floral work by the retail trade was a shining example for the trade of other cities and was by far the premier attraction in the eyes of the public. A miniature home and garden lay-out by J. Boddy, of the city parks, was also a powerful magnet for the visitors. Some idea of the extent of the show may be gained from the statement that there were no less than 336 entries in the competitive classes.

The "lions" of the carnation section were Cottage Gardens Co.'s magnificent new white, Matchless—well named, and Patten & Co.'s crimson Princess Dagmar. In the rose display the top-notchers were E. G. Hill's seedling Ophelia, Killarney Brilliant, S. J. Reuter's Prince E. C. de Arenberg, Hadley, and Mrs. Geo. Shawyer. In the chrysanthemum section the plant entries were quite ordinary, but the cut blooms were simply magnificent, E. G. Hill Co. and C. H. Totty both making great records. It is said that every class was filled up in this section. In the retail department the J. M. Gasser Co. presented a series of tables and other decorative work which were veritable gems of artistic beauty.

We have not space in which to publish the full list of prize awards even if that were desirable. In the chrysanthemum bloom classes first prizes were allotted as follows:

C. H. Totty, 6; E. G. Hill Co., 6; J. M. Gasser Co., 3; F. R. Williams Co., 2 and silver cup sweepstakes; Robert Weeks and A. N. Pierson, 2 each; Elmer D. Smith, 1.

Carnation 1sts as follows: E. G. Hill Co., 11 and two silver cup sweepstakes; Chicago Carnation Co., 8; Cottage Gardens Co., 1 and silver cup sweepstakes; Patten & Co., silver cup for best seedling; H. M. Weiss Sons Co., F. R. Williams Co. and N. Zweifel, 1 each.

Rose 1sts as follows: F. R. Pierson, 4 and silver sweepstakes cup; A. N. Pierson, 5; Lamborn Floral Co., 3; Cleveland Cut Flower Co., 2; C. H. Totty, 1 and silver cup sweepstakes; S. J. Reuter, F. R. Williams Co. and F. Breitmeyer, 1 each; E. G. Hill Co., highly commended for seedling Ophelia.

On decorative work the following 1sts:

J. M. Gasser Co. for chrysanthemum table, for rose table, for handle basket and for bride's bouquet; James Eadie Co., for bridesmaid's bouquet, for corsage bouquet and the Michell gold medal for basket of lily of the valley. On miscellaneous exhibits the Jas. Eadie Co. won 1st on lily of the valley, antirrhinums and hanging baskets; V. R. Gilmann on violets; F. R. Pierson on araucarias and ferns; J. A. Peterson on Lorraine begonias; Jones-Russell Co. on fern dishes; G. M. Naumann & Co. on Cincinnati begonias and C. Merkel & Sons on begonias.

THE PORTLAND SHOW.



Photo by C. S. Paige

PRIZE WINNING VASE OF YELLOW CHRYSANTHEMUMS

At Flower Show, Portland, Ore. Shown by Clarke Bros.

The Portland (Ore.) Floral Society put up its second annual flower show in the Armory on Nov. 11 and 12, amid a blaze of glory. It was the most spectacular show ever staged on the Pacific Coast and the public were ready to give it full recognition. We present in connection with these notes one view in this memorable exhibition and expect to show some more in a later issue.

The judges made additional report as follows:

Probably the most striking example of the above is the pictorial arrangement shown by the J. M. Gasser Co. The rare taste, artistic feeling and intrinsic beauty of this exhibit are worthy of the highest praise.

A large vase filled with palms, crotons and ferns, shown by John Kirchner, presents an excellent example of this means of decorating and is highly commended.

A vase of mignonette shown by the J. M. Gasser Co. is well grown; highly commended.

A display of araucarias, cyclamens and Pandanus Veitchii, by the Naumann Co.; is highly commended; the plants are clean and well grown.

An extremely fine exhibit of nephrolepis in many varieties and sizes, all in the pink of condition, shown by the F. R. Pierson

Co., Tarrytown, N. Y., is highly commended.

J. A. Peterson, Cincinnati, shows a new begonia with bronzy foliage that appears to us to be most promising and is highly commended. The same exhibitor also shows a group of decorative plants, containing a large Dracaena Victoria, surrounded by Pandanus Veitchii and Asplenium Nidus-Avis, which is highly commended. He also shows a new seedling begonia of the Lorraine class.

The rose Ophelia is shown by the E. G. Hill Co., Richmond, Ind. The flowers were fine and well grown; a promising variety, highly commended, and we recommend a substantial award.

As an exceptional feature, the miniature landscape arranged by John Boddy, city forester, is highly commended. It shows what anyone could do with his home grounds if properly instructed.

THE POUGHKEEPSIE SHOW.

The Poughkeepsie State Armory was a fairyland of beauty during the past week when the annual flower show of the Dutchess County Horticultural Society was given, larger and better than ever. There was a large attendance and the wide range and attractiveness of the exhibits brought out comments of the highest praise.

The judges, R. W. Allen, of Hudson, and James Bell, of New York, made the awards:

The principal exhibitors and prize winners were: Levi P. Morton estate, Wm. P. Clyde, Sallford Flower Shop, F. W. Vanderbilt, Ogden T. Mills, Winthrop Sargent, Col. O. H. Payne, Benj. Willig, F. Heeremans, N. Harold Cottam, Frank Ryan, Burgevine Sons, A. C. Zabriski, J. Von der Linden and W. E. Bock.

BRITISH HORTICULTURE.

National Sweet Pea Society.

Full indications of the continued prosperity of this Society were given at the annual meeting, in London, on Oct. 20th. The committee's report referred to the prevalence of "streak." This has been a great plague in certain districts. To encourage those who are working to find a preventive or cure, the committee propose to offer the gold medal of the Society, and £10 presented by Mr. H. H. Perkins, to the first person who shall prove to their satisfaction that a real preventive or cure has been devised. Owing to the unfavorable weather, the trials held at the Burbage experimental station, Hinckley, Leicestershire, were a partial failure; to obviate this it has been decided to sow seeds this autumn instead of next spring. No awards were made at Hinckley by the Floral Committee, but the variety R. F. Felton, reserved last year for the Society's silver medal, was reported true. The award of the medal was duly made to Robert Bolton, of Warton, Carnforth, who sent the variety to the trials. The membership of the Society stands at a little under 1,100. The members learned with regret that C. H. Curtis, the capable secretary was compelled by business reasons to resign his office. The Society's gold medal is to be awarded to Mr. Curtis in appreciation of his invaluable services. H. D. Tigwell was elected secretary, and the other officers appointed were: President, Hugh Dickson, Belfast, Ireland; treasurer, Edward Sherwood; chairman of committee, F. W. Harvey (editor of "The Garden"); auditor, R. Gluyas. In the evening the members dined together, under Hugh Dickson's genial chairmanship.

W. H. Adsett

CHRYSANTHEMUM SHOW AT MINNEAPOLIS PARK GREENHOUSES.



THE FIRST SNOW-FALL.

The snow had begun in the gloaming,
And busily all the night
Had been heaping field and highway
With a silence deep and white.

Every pine and fir and hemlock
Wore ermine too dear for an earl,
And the poorest twig on the elm tree
Was ridged inch deep with pearl.

From sheds new-roofed with Carrara
Came Chanticleer's muffled crow;
The stiff rails softened to swan's-down,
And still fluttered down the snow.

I stood and watched by the window
The noiseless work of the sky,
And the sudden flurries of snowbirds,
Like brown leaves whirling by.

I thought of a mound in sweet Auburn,
Where a little headstone stood;
How the flakes were folding it gently,
As did robins the babes in the wood.

Up spoke our own little Mabel,
Saying, "Father, who makes it snow?"
And I told of the good All-Father,
Who cares for us here below.

Again I looked at the snow-fall,
And thought of the leaden sky
That arched o'er our first great sorrow,
When that mound was heaped so high.

I remembered the gradual patience
That fell from that cloud like snow,
Flake by flake, healing and hiding
The scar of our deep-plunged woe.

And again to the child I whispered,
"The snow that husheth all,
Darling, the merciful Father
Alone can make it fall."

Then with eyes that saw not I kissed her;
And she, kissing back, could not know
That my kiss was given to her sister,
Folded close under deepening snow.

1849. *James Russell Lowell.*

Salem, O.—J. J. Gunn & Son's greenhouses on Garfield avenue were badly damaged by heavy snow drifting on November 9th. Four roofs were broken and the stock was badly frozen.

NUMBER, PLEASE?

The pole is ours—
With joy we snatch it!
We did it with—
Our little hatchet!

So sings Samuel George Sellers Washington Pennock—at the myrmidons of the telephone king—who tried to plant an obstruction near the entrance gate of his Lansdowne home. Samuel didn't appeal to law; he just ordered his boy to come around and cut the thing down.

"Thrice is he armed who hath his quarrel just,
But four times he who gets his lick in first."

"Ninety-eight per cent. perfect," shout the telephone people in their ads. Arthur Niessen thought it should read "two per cent. perfect and ninety-eight per cent rotten." He had my sympathy. I blow up and have a fit quick when anything goes wrong but the telephone in particular gets me going. I stay away from it all I can.

We get little chunks of wisdom unconsciously sometimes, as we walk along the street, talking with a friend. The other day with John Burton, for instance. "O, yes," said he, "the telephone's a great thing and we couldn't do without it but personally I prefer to telegraph a message." "Why?" "Well, for one thing, because you can stop when you are done talking, and don't have to say a whole lot of things you don't want to say, and that were better left unsaid." Sounds good.

G. C. Watson.

Youngstown, O.—The glass roofs on the Gunn & Pettit greenhouses caved in from the heavy pressure of snow on Nov. 9th, causing a damage of several hundred dollars.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

Rules Governing the Society's Jurisdiction of Rose Test Gardens, Adopted and Passed at Executive Meeting Held in New York City, Nov. 10, 1913.

The following rules of the American Rose Society shall be adhered to by any experiment station or park system accepting the authorization of the American Rose Society in its test garden for Roses.

There shall be submitted for trial not less than five plants of each variety of the bedding type, and not less than two plants of the climbing and pillar types.

Records shall be kept of each variety, stating name and number of variety, classification, parentage, age of plants, and whether worked on stock or on its own roots. Two-year-old plants are most desirable for planting.

Test varieties shall remain in the garden for at least two growing seasons, where they can be judged the second season if necessary. The after disposal of the plants to be optional between the exhibitors and the authorities.

Exhibits will be inspected by the judges appointed by the American Rose Society at designated times, and awards will be officially given according to merit. The authorities will take due percaution to protect exhibits from vandalism and dissemination, and give the garden every cultural attention possible.

Each variety shall be labeled by number until judged, when a painted label stating name or number of variety, the introducer, and the award, will be posted permanently.

Dissemination of Information.

All printed information relating to these Rose Test Gardens shall be subject to approval of the American Rose Society.

Whenever possible the fullest information relating to these gardens shall be given to the public, the American Rose Society reserving the right to use any information regarding these gardens, and to copy any reports regarding the same to use in its publications, and for use in other publications.

The permanent Rose Garden Committee of the American Rose Society shall in every way possible co-operate in the securing of plants and laying out of such gardens and assist with advice where desired, in the cultivation and care of these gardens.

American Rose Society Awards.

Medals and Certificates for new Roses:

A new Rose shall be considered one which has not been disseminated for a period longer than three years.

A gold medal is offered for the best new Rose of American origin and introduction, scoring not less than 90 points.

A silver medal is offered for the best new Rose of American origin and introduction, scoring not less than 85 points.

A gold medal is offered for the best new Rose of foreign origin and introduction, scoring not less than 90 points.

A silver medal is offered for the best new Rose of foreign origin and introduction, scoring not less than 85 points.

A gold medal is offered for the best new Rose of foreign origin and American introduction, scoring not less than 90 points.

A silver medal is offered for the best new Rose of foreign origin and American introduction, scoring not less than 85 points.

Any medal or certificate awarded for a disseminated variety shall be the property of the introducer of the variety.

Certificates of merit will be awarded to all new Roses scoring not less than 80 points.

No variety shall receive more than one award. All exhibits will be judged by the official scale of the American Rose Society.

The official scale of points for judging outdoor Roses is as follows:

Floriferousness, 20; Vigor, 20; Color, 15; Size, 15; Form, 10; Subtance, 10; Fragrance, 10.

It is further ordered that the complete scores of all the entries in the competition be filed with the Secretary of the Society before the award of any medal or certificate be confirmed.

The Executive Committee of the Society reserves to itself the right of selection of the judges who shall pass upon the exhibits in the competition for these medals.

The Executive Committee of the American Rose Society reserves to itself the right to amend these rules as circumstances may deem necessary.

BENJAMIN HAMMOND, Sec.

Beacon, N. Y.

AMERICAN SWEET PEA SOCIETY.

A meeting of the Board of Directors of the American Sweet Pea Society was held at the offices of Peter Henderson & Co., New York, on Tuesday, Nov. 18th, the vice-president, A. M. Kirby in the chair. Secretary Bunyard announced that the management of the International Flower Show had



MEDAL OF THE AMERICAN SWEET PEA SOCIETY.

donated $250 for prizes to be awarded in the sweet pea section of the show to be held in the Grand Central Palace, New York, March 21st to 28th. George V. Nash, secretary of the Horticultural Society of New York was present and reported that the council of his society invited the American Sweet Pea Society to hold its annual meeting and exhibition at the museum in the Botanical Gardens, Bronx Park, June 27th and 28th, and offered $200 in premiums. Considerable discussion ensued, the result being that the directors were unanimous in their belief that Bronx Park was too far away from the center of New York City to suit the convenience of exhibitors and to insure a good attendance on the part of the public. The dates appeared to meet the approval of the board, but it was thought that, if it were possible, the American Museum of Natural History, 77th street and Columbus avenue, would be a much more convenient and desirable building in which to hold the exhibition. A resolution was passed to this effect, and Secretary Bunyard was instructed to forward a copy of same to the Horticultural Society, and was authorized to attend the meeting of the council of that society in December when, it was understood, the matter would come up for consideration.

The secretary presented a statement covering the financial affairs of the society, which showed them to be in good shape. The preliminary schedule of premiums for exhibits at the June exhibition was drafted, and changes were made in the conditions covering some of the usual classes.

The secretary was instructed to approach the various seed houses interested in the advancement of the sweet pea, with the purpose of forming a prize fund which would amount to $500 or more. Mr. Kirby for Peter Henderson & Co., Mr. Burpee, for W. Atlee Burpee & Co., and Mr. Bunyard for the house of Arthur T. Boddington, each subscribed $50 toward this fund. Lester L. Morse, for C. C. Morse & Co., of California also subscribed $25. Much enthusiasm was manifest at the meeting, and from the arrangements made and prospects as reported, the exhibition in 1914 should outrival all previous exhibitions of this society.

HARRY A. BUNYARD, Sec.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Submitted by Elmer D. Smith & Co., Adrian, Mich., at Philadelphia, Nov. 8, Smith's Ideal, white, Jap. Inc., Com. scale, 86 points; at Chicago, Nov. 8, Pink Pompon (No name or number), Com. scale 86 points; Yellow Pompon No. 21-9-12, Com. scale 85 points. At Cincinnati, Nov. 15, Nerissa, Pink, Jap. Inc., Com. scale, 90 points; Ex. scale, 93 points; Odessa, yellow, Inc. Jap., Com. scale, 91 points; Ex. scale, 88 points.

Submitted by E. G. Hill & Co., Richmond, Ind., at Chicago, Nov. 8, Chieftain, pink, Inc., Com. scale, 88 points.

Submitted by Wm. P. Longland, gard. to C. L. Hutchinson, Lake Geneva, Wis., at Lake Geneva chrysanthemum show, Nov. 11, Marie Poole, Anemone, Salmon Pink, Yellow Cushion, Com. scale, 90 points.

Submitted by G. A. Lotze, Glen Burnie, Md., at Philadelphia, Nov. 15, Edwin Seidewitz, Pink, Jap. Inc., Com. scale, 87 points.

Frederick Lagerstam, Belle Haven, Greenwich, Conn., registers the following: Mary Ellen, a sport of Dr. Enguehard. The growth, habit. form and height the same as the parent; color a light terra cotta with a blush of pink.

CHAS. W. JOHNSON, Sec'y.

CLUB AND SOCIETY NOTES.

The St. Louis Retail Florists' Association held a meeting November 17, at Beers Hotel, with quite a good attendance.

At the meeting of the Minnesota State Florists' Association on Nov. 21st, C. W. Johnson, secretary of the Chrysanthemum Society of America, gave a lecture on chrysanthemums.

The Engelmann Botanical Club held its first meeting since last summer at

A TULIP BED.



Bulb planting has been in progress for some time in the Department of Parks, Borough of Brooklyn. The accompanying picture is from a photograph which is on file in the office of the Department, showing one of last season's formal tulip beds. A suitable location for this monster flag, 100 feet long and 65 feet wide, was found at Seaside Park, at the end of Ocean Parkway, Coney Island, where people could enjoy seeing it. The flag consumed 33,000 tulip bulbs, 6,000 pansies, 1,000 daisies. The kinds used were White Hawk and Couleur Cardinal tulips for the stripes; the Union was made of Giant Emperor William pansies, and the 13 stars, each of them measuring four feet through, took an additional thousand Bellis perennis (Longfellow). The pole was planted with Improved Yellow Prince tulips to give a desired color contrast.

the Missori Botanical Garden. After the meeting they were escorted to the big conservatory to view the chrysanthemum show.

The next regular meeting of the Florists' Club of Washington, scheduled for Tuesday evening, December 2, will prove a very important one as there are many matters of grave importance to the trade to be brought up for action.

The regular monthly meeting of the Cook Co. Florists' Association, Chicago, was held Nov. 20th. A committee consisting of the president, secretary and trustees of the Cook Co. Association, was appointed to formulate a letter to the Chicago Florists' Club. Some fine begonia plants were exhibited by Peter Pearson. The December meeting will be held on the 11th, and all members having any Christmas plants to exhibit are requested to bring them at that time.

The regular meeting of the New London Horticultural Society was held on the 13th inst. It was fruit night and a good display of apples, pears and medlars was to be seen. Special mention could be made of those exhibited by Gustav Neumann, Alfred Flowers and Dr. Rogers. There were also some good chrysanthemum blooms, mostly late varieties and pompons. Stanley Jordan gave an interesting talk on his visit to England.

H. LICKMAN, Sec'y.

Waterford, Conn.

NEWS NOTES.

Darby, Pa.—K. Schneider & Son have purchased the greenhouses and stock of Mrs. John Summerfield.

Albion, N. Y.—White Bros., of Medina, have purchased the establishment of A. T. Vick and will carry on a retail business.

Le Roy, N. Y.—A. King has purchased the Walters greenhouses, North street, and will continue the retailing of flowers and plants.

ANGIOPTERIS EVECTA.

Can any reader give me any authentic information respecting the history, native habitat, cultural requirements, etc., of the above? I understand it is a species of tree fern but do not find it listed in any of the ordinary horticultural works.

New York. J. D. W.

HORTICULTURE PUBLISHING CO.,

Gentlemen:—Re. Angiopteris evecta, I wish to state that this species is widely distributed throughout Asia, also occurring in China and Japan. It differs considerable in from what region it is imported. It has been introduced a good many years ago and is found generally in fern collections at botanical gardens or public conservatories. It is not a tree fern but makes a heavy crown something like an elephant's foot from which it sends out very large twice and three times divided fronds of thick leatherly substance. It is a plant that will reach large dimensions and needs a similar culture as any large growing fern. I have a large specimen of it in my collection, as it forms a fine object for exhibition purposes. W. A. MANDA.

So. Orange, N. J.

NEW CORPORATIONS.

Duluth, Minn. — Sheridan Greenhouse Company, capital stock, $25,000. Incorporators, S. L. Caple, H. A. Loucke and J. H. Ladd.

Lewisboro, N. Y.—Bird Steel Frame Greenhouse Co., capital stock, $10,000; incorporators, Charles H. Ketchum, Arthur F. Driscoll and William D. Bird.

The New Nanz & Neuner Company, organized to take over the old Nanz & Neuner business. Capital stock, $15,000; incorporators, Robert A. Kraft, president; H. C. Kraft, vice-president; Edward A. Kraft, treasurer; D. E. Wellers, secretary and general manager.

PHILADELPHIA NOTES.

Dennis T. Connor was stricken with typhoid on the 19th. Reports from his home today indicate that it is a very severe case. The sympathy and earnest prayers of all go out for him and his family in this hour of stress. May he come safely through the valley of the shadow.

Articles of incorporation were applied for at the department of state of Pennsylvania on Nov. 18, for the Wm. Henry Maule Co., of Philadelphia. The applicants are representatives of the estate. The officers of the company will be announced in due course.

A recent visit to the home of Killarney Brilliant at Sharon Hill found that new rose in fine shape. Experts from far and near are coming to look at it. Already nearly booked up to limit of capacity of next spring's delivery.

Visitors: Raymond Kester, Kester & Hardin, Williamsport, Pa.; B. W. Delaney, representing J. Chas. McCullough Co., Cincinnati, Ohio; P. Welch, Welch Bros., Boston, Mass.; D. Hammond Mish, Lebanon, Pa.; Miss Schultheis, Scranton, Pa.; Thomas Roland, Nahant, Mass.; F. R. Pierson, Tarrytown, N. Y.; E. Howard Smith, Hazelton, Pa.

GREENHOUSES BUILDING OR CONTEMPLATED.

Monticello, Ia.—C. L. Van Meter, one house.

Danbury, Ct.—E. E. Mathewson, house 40 x 200.

Portland, Me.—City Greenhouse, addition 25 x 100.

Atlantic City, N. J.—Patrick J. Mooney, South Newport avenue, one house.

Philadelphia, Pa.—W. Evans, Wyoming avenue and Fisher's Lane, house 75 x 150.

TWO CATERPILLARS THAT HAVE TROUBLED FLORISTS.

A fern-destroying caterpillar is described in a new bulletin (No. 125) issued by the Government's Bureau of Entomology. The pest comes from Florida, and has made its appearance in northern greenhouses, particularly in the District of Columbia, Illinois, and Ohio, having undoubtedly been introduced there in importations from Florida.

The caterpillar has the same habit as cut worms, of cutting or severing portions of the fern plant, apparently destroying more than it needs for food. As it is always warm in the greenhouse where it works, the insect does damage in winter as well as in summer. It attacks the tender leaves, especially the growing tips of young fronds, thus checking any attempt or the plant to replenish its dying parts.

The moth that lays the eggs from which this caterpillar is hatched is seldom seen by day. When aroused it usually flies down under the benches. Many moths are caught in spider webs in dark corners of the greenhouses. The color of the larvae varies from yellow or bright green to nearly black. Its length is about an inch and a half. A cut in the bulletin illustrating both moth and caterpillar will assist the fern growers to identify it.

The District of Columbia fern growers have experienced much trouble in treating this pest. Finally, however, the insect has yielded to the method of hand-picking, which, although somewhat laborious, seems to be the most efficacious way of overcoming it.

Another caterpillar that attacks rose bushes and young trees is described in a new bulletin (No. 124) compiled by the same entomologist. Hand-picking is advised to control the ravages of this insect in case its work has not been too extensive, precaution being taken to use a glove to avoid being "stung." Bushes or trees may be sprayed with Paris green or arsenate of lead if there is no danger of poisoning human beings thereby.

It is only within recent years that this slug-like caterpillar has been known to injure roses. It has also been remarked that the larvae feed on wild cherry, oak, chestnut, hickory, paw paw, bayberry or wax myrtle, dogwood, plum, apple and pear trees.

The new bulletin contains a cut of the rose slug-caterpillar which will interest both rose growers and nurserymen. The caterpillar is described as attractively and strongly marked, and about three-fourths of an inch in length when full-grown.

FIREBLIGHT.

Fireblight is the most serious disease that attacks apple and pear trees, and occurs in nearly every part of the United States where these fruits are grown. When its cankers girdle the branches they cause the leaves to turn black, as though caused by a fire, and often to remain on the tree throughout the following winter. Fireblight is caused by bacteria, and myriads of germs are present in all freshly blighted parts of the tree and in the sticky oozo from running cankers.

TWO CATCH CROPS

BABY GLADIOLI and FREESIAS

Planted where the Carnations "missed," or along the edges of the benches, they will come in just when you need them most, and a "friend in need is a friend indeed." We offer ourselves as follows, less 5% if cash accompanies the order.

GLADIOLUS, Colvillei and Nanus (Type)

	100	1000
ACKERMANII. Salmon-orange, with white blotches, edged scarlet; very pretty	$0.85	$7.50
BLUSHING BRIDE. Flowers are large, pure white, with delicate pink spot: useful for early forcing	.75	5.00
DELICATISSIMA SUPERBA. Pure white, bright large carmine blotch	1.50	12.00
FAIRY QUEEN. Carmine red, white blotch	.75	6.00
FIRE KING. Orange-scarlet; purple blotch, purple-bordered	1.75	16.75
PEACH BLOSSOM. The most beautiful of all the Colvillei type of Gladiolus; the color is a lovely, soft pink, on the order of the Killarney Rose	.85	7.50
PINK PERFECTION. A fine rose variety	.75	6.50
QUEEN WILHELMINA. Blush-white, with conspicuous blotches of cream, with scarlet margin	2.25	20.00
SAPPHO. Large white, shaded pale lilac, with faint, creamy blotches, edged violet	.85	7.50
THE BRIDE (Colvillei alba). (True.) This lovely white miniature Gladiolus makes a useful cut flower for early spring use; will stand forcing	.75	6.00

FREESIA REFRACTA ALBA—"Quality Brands"

FRENCH-GROWN

Bulbs, ⅜ to ½ inch in diameter	$0.75	$6.00
Mammoth bulbs, ½ to ¾ inch in diameter	1.00	7.50
Monster bulbs, ¾ inch and up in diameter	1.25	10.00

FREESIA PURITY

Flowers are snowy white, of large size, and borne in great profusion on long stems. First size, $1.75 per 100; $15.00 per 1000.

ARTHUR T. BODDINGTON, SEEDSMAN. 342 W. 14th Street NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale .....$3.80 25 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. each.
J. H. SPRAGUE, Barnegat, N.J.

ORCHIDS
600 PLANTS
Flowering Cattleya Labiata
in Sheath for November and December. Ready to ship now. In or out of pots. Also orders taken for fresh imported stock to arrive early 1914.
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.
G. L. FREEMAN, Mgr.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721 NEW YORK CITY

ORCHIDS
We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL. Summit N. J.

SPHAGNUM MOSS
We guarantee fresh and clean, 10 bbl bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.
1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00
Car lots. Write for Prices.
INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

While cutting out the infected parts and disinfecting them is the standard treatment recommended, the details of this work when done effectively are so many and difficult that it takes many pages of instruction and illustration to make it plain to the fruit growers. This detailed information is contained in Circular Bulletin No. 7, Crop Post Series No. 1, revised and brought to date by Professor H. S. Jackson, head of the Plant Pathology department of the Oregon Agricultural College. The Bulletin may be had free of cost by addressing a request for it to Secretary Experiment Station, Corvallis, Oregon.

CATALOGUE RECEIVED.

J. L. Moore, Northboro, Mass.—Wholesale Price List of Dahlias and Gladioli.

Personal

Robert H. Rhynd, gardener for Mrs. H. O. Underwood, Belmont, Mass., was married on Thursday evening, Nov. 20.

Harry G. Morten, formerly with R. M. Saltonstall, Chestnut Hill, Mass., is now head gardener for Mrs. Plant's estate, Cohasset, Mass.

Lester E. Oritz succeeds the late William Elias as superintendent of the W. P. Ellis estate, Bernardsville, N. J. Mr. Oritz had been superintendent of the Pratt estate, Glen Cove, N. Y.

Andrew L. Dorward and Miss Agnes Douglas Forbester were married at the home of Alex. McKay, Newport, R. I., on Nov. 20. All the Newport gardeners were in the jollification and Andrew Meikle's daughter was best maid.

Boston visitors: Vernon T. Sherwood, Charlestown, N. H.; E. J. Harmon, Portland, Me.; John Stalford, Bar Harbor, Me.

St. Louis visitors: H. F. Wilsdorf, representing Cordley & Hayes, New York; John Bubock of Schloss Bros.; M. Le Vine, New York.

New York visitors: W. Atlee Burpee, Philadelphia, Pa.; Lester L. Morse, Santa Clara, Cal.; P. Welch, Boston, Mass.; Thomas Roland, Nahant, Mass.

Cincinnati visitors: Simon J. Hyder, Hillsboro; A. F. Longren, representing Poehlmann Bros. Company, Chicago; W. E. Hamilton, Greensburg, Ind.; Martin Reukauf, representing H. Bayersdorfer & Co., Phila.; Ellis Woodworth, representing The Sefton Co., and S. Harbeson, Danville, Ky.

FERNS FOR DISHES

Fine Assortment of Best Varieties.
Stock is Very Fine

WHITMANI
AND
BOSTON FERNS
In 6, 7, 8 inch pots

SEND FOR PRICES

ERNEST OECHSLIN
Gale Ave. and Madison St.
RIVER FOREST, - ILL.

DAHLIAS

800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World.

J. K. ALEXANDER
"The Dahlia King"
East Bridgewater, - - Mass.

For Your Catalog
List Swastika Brand Cannas



THROUGH the years and years of development under our Mr. Wintzer, the Canna has wondrously come into its own. It has bloomed out. It is the old thing glorified. From a small red bloomed sentinel, it is now the King of Bedding Plants, crowned by a riot of color blooms.

Of the eighty or more varieties that we have produced, fully a quarter of them have bronze foliage. To the large number of varying reds, pinks, yellows, and variegated combinations, we are now ready with a white. A fine, beautifully formed flower that is bound to be much in demand.

From now on, our Cannas will be sold and advertised under the name of Swastika Brand. To be able to name them and have them identified as the C. & J. productions, will be a special advantage to you in listing them in your catalog.

Send in your listing orders. Never have we had finer, fatter clumps or in such a variety. Order now and we will ship at your convenience.

THE CONARD & JONES CO.
Swastika Brand Cannas
WEST GROVE, PENN.

CYCLAMENS: BLOOMING as well as SEEDLING

From 4 in., 5 in., 6 in., 7 in. and 8 in., at from 15c. to $1.50 each. Fine grown stock in all colors. August-sown Seedlings—200,000 of them—of our own grown seeds; not comparable with any old seed grown.

IT IS THE ACME OF PERFECTION

what we select for seed-bearers and that is the reason we send them from Ocean to Ocean. Try them and be convinced. $2.00 per 100; $20.00 per 1000. Once transplanted: $3.50 per 100; $30.00 per 1000.

C. WINTERICH, Cyclamen Specialist
DEFIANCE, O.

HOLLAND NURSERIES
BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.
P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Very Large Evergreen and Deciduous Trees
LARGE PRIVET
The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

KILLARNEY BRILLIANT
THE Great Forcing **ROSE**
ROBERT SCOTT & SONS, Sharon Hill, Pa.

When writing to advertisers kindly mention HORTICULTURE.

HEDGE PLANTS

Old Fashioned Garden Plants, Evergreens, Shrubs, Vines and Roses
FOR FALL PLANTING
Largest Assortment
THE NEW ENGLAND NURSERIES
Telephone Lexington 274-W. BEDFORD, MASS.
Mention HORTICULTURE when writing

Flowering Plants

Hydrangea Avalanche—4 to 8 branches, 6½ to 7 in. pots, 35c. and 50c. each.

Deutzia gracilis—6½ in. pots, 15 to 20 branches, home grown, excellent stock, far superior to foreign grown, 20c. each.

Marguerites—6 in. pots, very bushy, will make fine plants for Easter, 25c. each.

Have a small surplus of the above stock which was grown for our Easter trade and is all first-class.

Primula Obconica. Finest mixed: 2¼ in. pots, $3.00 per 100; 3 in. pots, $5.00 per 100, ready for 4½ and 5 in. pots.

A. L. MILLER
Jamaica Ave., opposite Schenck Ave., BROOKLYN, N. Y.

"Get them at Dreer's"

VARIEGATED FUNKIAS

Funkia Undulata Media Picta

This splendid variegated form, besides being a most valuable hardy border plant, is becoming more popular every year as a spring pot plant. Now is the time to secure your supplies as we have an immense stock of strong plants, suitable for potting, which we offer at $6.00, $8.00, and $10.00 per 100, according to size.

In varieties suitable for the hardy border, we offer:

	Per Doz.	Per 100
ALBO MARGINATA. Pretty green foliage, margined with white, flowers lilac	$1.50	$10.00
COERULEA. Blue, broad green leaves	.85	6.00
FORTUNEI. Large, glaucous-green foliage, flowers mauve	2.00	15.00
MINOR ALBA. A pretty miniture-growing variety with rather large white flowers.	1.50	10.00
LANCEOLATA. Valuable by reason of its late-flowering, lilac flowers	.85	6.00
ROBUSTA ELEGANS VARIEGATA. The most robust of all the variegated leaved varieties; foliage large, green, with pretty, white variegations	1.00	8.00
SIEBOLDIANA. Large glaucous foliage; flowers white tinged with lilac	1.25	10.00
SUBCORDATA GRANDIFLORA. Very large and showy; pure white, lily-shaped, fragrant flowers in August	1.25	10.00

HENRY A. DREER, Inc.

714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL

FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

German Notes.

A letter from a correspondent in Germany tells us that there they are having lots of rain in Hamburg—almost too much for the proper cleaning of lily of the valley which is still going on, and by far too much for the replanting of one and two-year pips for crop two and three years hence. Like the Holland bulb-growers the lily of the valley men in Germany have made enormous profits in recent years, in consequence of the constantly increasing demand. At Leipzig there has been no frost as yet (Nov. 7) and it is remarkable to see geraniums, dahlias, tea roses and other tender plants still in bloom. The harvest has been most satisfactory, and nursery stock, such as lilacs, roses, etc., has rarely matured its wood so well.

Germany is industrious and phenomenally prosperous, due to the saving habits of her people. Today in the country districts the houses are nearly all new; hardly any of the old-fashioned two or three-room thatched huts of twenty years ago now remain—then they were the rule.

Notes.

Des Moines, Ia.—After December 15th, The Iowa Seed Company, now located at 613-615 Locust street, will remove to 209-211 Walnut street, where they will have more room to handle their increasing business.

Announcement has been made by the Civil Service Commission, Washington, D. C., of an examination to be held in this city on January 7, 1914, to fill vacancies in the position of seed warehousemen to which is attached a salary of from $1,200 to $1,600 a year. Application blanks and other information can be secured from the Commission.

Members of the Maryland State Horticultural Society were given a noonday luncheon Nov. 19, as a feature of Maryland Week, by the seed firm of J. Bolgiano & son, under the auspices of the Baltimore Board of Trade, at the City Club. About 300 of the members attended, including a number of women horticulturists. City Collector Jacob W. Hook, chairman of the entertainment committee, was master of ceremonies. Roszell J. Brown, manager of the retail department of the Bolgiano firm gave a very interesting talk on the Relation of Good Seed to Good Horticulture, and to an extent his firm was going to accomplish this end, by maintaining a seed testing laboratory second to only the department at Washington. J. Henry Joyeux, field seed manager also made a most interesting talk as to the small quantity of cheap seed that is now being sold in Maryland in comparison to the quantities that were sold some years ago. E. P. Cohill made a short address and in conclusion offered three cheers for the Bolgiano dinner, which were given heartily.

THE GARDENER'S PLACE.

Apropos to the remarks of David Miller, (or shall we with pleasing familiarity call him Dave?) it must be admitted that many employers are ignorant in regard to gardening and why should not this be the case? "A little knowledge is dangerous" and we must forgive such for they know not what they do. Mr. McVeagh, when Secretary of the Treasury, said: "In every profession which uses a man's highest powers and lays rigid demand on his idealism and courage it is always safe to assume that up to a certain point these men can be overworked and underpaid because they are much more concerned with doing their work well than with being well paid for it. But when this imposition begins to reduce them and their families to poverty they do not, as workmen lower in the scale, go on strike. They quietly resign and seek some other occupation. It is a commonplace among professions in which idealism plays a part: this idealism is deliberately exploited to the disadvantage of whom it is exacted." This, I think, meets the gardener's case exactly and so long as conditions are as they are gardening must necessarily be a labor of love. Occasionally we hear that a gardener must be everything else besides being a gardener but let a gardener be true to himself and to his profession and he will have little occasion to fear any kind of employer—ignorant or otherwise. I heartily agree with David Miller that gardeners are studious, not with the thought of gaining distinction or passing examinations, but simply for the love of their profession and for their own satisfaction; surely the best kind of study.

Mr. Ebel's advice is well taken; watch your opportunity and move on if an employer is not satisfactory. Truly one is liable to be called a "floater" if one moves too often but then the floaters don't have such a bad time as some who would rather suffer any indignity than leave their situations. Certain it is that in moving frequently the gardener gains a varied knowledge which is extremely useful; indeed in factory life the floaters are considered the most skillful workmen and in my experience the same applies to the gardening profession.

Yours very truly,
VERNON T. SHERWOOD.
Charlestown, N. H.

FIRES.

Charles City, Ia.—The Sherman Nursery Company lost thirty horses on Nov. 16th, when fire destroyed their barn.

Scranton, Pa.—Fire in the garage of T. B. McClintock, last week, caused considerable damage, besides completely destroying three autos.

MICHELL'S SPIREA CLUMPS

	Doz.	100	1000
Astilbe Floribunda	$0.85	$ 5.50	$ 52.50
Compacta Multiflora	.90	6.00	55.00
Philadelphia (new) 30c each	3.00	20.00	
Queen Alexandra	1.25	7.75	72.50
Gladstone	1.00	6.75	62.00
" Monster	1.75	11.00	100.00
Japonica	.65	4.75	42.50

DIELYTRA SPECTABILIS

Mammoth Roots, 90c per dozen; $6.00 per 100; $52.00 per 1000.

FORCING GLADIOLUS

Fine Plump Bulbs, Ready Now
Bride, pure white....100, 65c; 1000, $5.25

Asparagus Hatcheri Seed

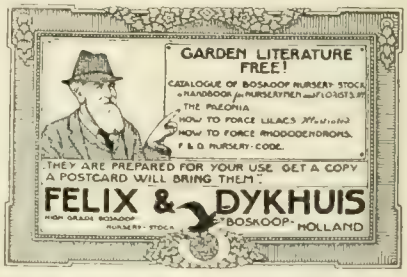
NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.
Flower Seed Specialists
518 Market Street, PHILADELPHIA, PA
Mention HORTICULTURE when writing



LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren St., New York, N. Y.

Write for quotations

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See?

We have all the leading
WINTER SWEET PEAS
at $2.00 per lb. Try a few of our
NEW WINTER ORCHID
SWEET PEA, at $4.00 per ½ oz.
Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.
Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.
ANT. C. ZVOLANEK
LOMPOC, CALIFORNIA

WILSON'S SEEDS SOLD IN NEWARK
We have arranged for our very special strains of
FLOWER SEEDS FOR FLORISTS
Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.
J. J. WILSON SEED CO., Inc.
79 Orange St., NEWARK, N. J.
WILL GROW ANYWHERE

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

Place your order now for Ayres' Winter Flowering
SWEET PEA SEED
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.

Lily of the Valley
(COLD STORAGE)
Burnett's Selected Dresden Brand conveniently packed in cases of 250, 500 and 1000 each.
Price on application.
BURNETT BROS., - - Seedsmen
98 Chambers St., New York

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK
Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable Seeds.
H. ZYP & CO., Lisse (Holland)
Wholesale Bulbgrowers.
Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

FOTTLER FISKE RAWSON CO.,
LILIES BOSTON
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

MUSHROOMS
Barter's Peerless Brand
$6.50 100 lbs.
Our treatise how to succeed included
Wm. Elliott & Sons
42 Vesey St., New York
Mention HORTICULTURE when writing

NARCISSUS
PAPER WHITE GRANDIFLORA MULTIFLORA MAMMOTH BULBS
1000 per case, $10.00
WEEBER & DON
Seed Merchants, 114 Chambers St., New York
Mention HORTICULTURE when writing

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
ONION SETS
226-230 W. KINZIE STREET, CHICAGO
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

PAEONY ROOTS
Assorted in five colors, $10.00 per 100.
BLEEDING HEART ROOTS
$6.00 per 100.
EARLY WHITE ROMAN HYACINTHS
(12 to 15), $2.25 per 100, $18.00 per 1000.
FREESIA
Refracta Alba, ⅜ to ½-in., 60c. per 100, $4.00 per 1000.
LILIUM HARRISII
5 to 7, $2.50 per 100, $20.00 per 1000.
SPIRAEA

Astilboides floribunda	$4.00	$35.00
Gladstone	6.00	45.00
Japonica	4.00	35.00
" compacta multiflora	5.00	40.00
Palmata	7.00	.....
Washington	5.00	40.00
Queen Alexandra	8.00	65.00

LILY OF THE VALLEY
CLUMPS AND PIPS
will arrive soon—prices on application.
J. M. Thorburn & Co.
"The most reliable seeds"
53 Barclay St. (T 18) NEW YORK, N. Y.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Jersey Grown Callas
1 1-2 inches in diameter and up.
To clean out $50.00 per 1000
O. V. ZANGEN
SEEDSMAN, HOBOKEN, N. J.
Mention HORTICULTURE when writing

Plants, Bulbs & Seeds
It is our aim to please you at all times. Try us
S. S. SKIDELSKY & CO.
1218 Betz Building, Philadelphia, Pa.
Catalog for the asking

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

THE FLORISTS' TELEGRAPH DELIVERY

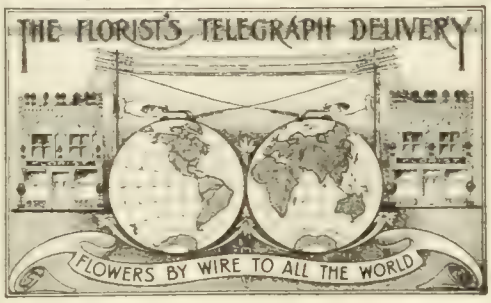
Retailers' Section of the Society of American Florists and Ornamental Horticulturists

OFFICERS

President
IRWIN BERTERMANN
Indianapolis, Ind.

Vice-President
W. F. GUDE
Washington, D. C.

Treasurer
W. L. ROCK
Kansas City, Mo.



DIRECTORS

ERNST WEINHOEBER
A. B. CARTLEDGE
FRED H. MEINHARDT
PHILIP BREITMEYER
GEORGE ASMUS
J. A. VALENTINE
JOHN BERTERMANN
HENRY PENN

Mutual Discounts 20 per cent. Provisions for Guaranteed Accounts.
Write to Albert Pochelon, Secretary, 153 Bates St., Detroit, Mich. Our list is growing steadily; so is the Telegraph Business. ADD YOUR NAME TO THIS LIST.

Akron, Ohio, 26 South Main St.....H. Heepe's Sons
Albany, N. Y., 40 & 42 Maiden Lane.....Danker, Fred A.
Albany, N. Y......The Rosery Flower Shop
Anderson, S. C......Anderson Floral Co.
Atlanta, Ga......C. A. Dahl Co.
Atlantic City, N. J., 1505 Pacific Ave.....Berke, Geo. H.
Atlantic City, N. J......Edwards Floral Hall Co.
Augusta, Ga......Stuhl's Nursery
Austin, Minn......Kinsman, A. N.
Bay City, Mich., 325 Park Ave.....Boehringer Bros.
Bloomington, Ill., 318 N. Main St.....Washburn, A. & Sons
Boston, Mass., 342 Boylston St.....Carbone, Philip L.
Boston, Mass., 15 Brimfield St.....Penn, Henry
Boston, Mass., 143 Tremont St.....Wax Brothers
Brooklyn, N. Y., 272 Fulton St. and 7 Clinton St., Phillips, John V.
Buffalo, N. Y., 440 Main St.....S. A. Anderson
Buffalo, N. Y., 304 Main St.....Palmer, W. J. & Son
Calgary, Alberta, Canada.....Terrill, Ltd., A. M.
Cedar Falls, Iowa.....Joseph Bancroft & Sons
Cedar Rapids, Iowa.....Kramer & Son, I. N.
Charleston, W. Va., 19 Capitol St., Charleston Cut Flower & Plant Co.
Chicago, Ill., 25 E. Madison St.....Lange, A.
Chicago, Ill., 854 N. State St.....Neiglick, Chas. T.
Chicago, Ill., 2172 2134 Michigan Ave.....Samuelson
Chicago, Ill., 2223 W. Madison St.....Schiller, The Florist
Chicago, Ill., 31st and Michigan Ave.....Smyth, W. J.
Chicago, Ill., 22 E. Elm St.....Wienhoeber Co., Ernst
Cincinnati, O., 138 E. 4th St.....Baer, Julius
Cincinnati, O., 150 E. 4th St.....Hardesty, T. W. & Co.
Cleveland, O......Gasser Co., J. M.
Cleveland, O., 5523 Euclid Ave.....Graham, A. & Son
Cleveland, O., 1284 & 1308 Euclid Ave.....The Jones-Russell Co.
Cleveland, O., 1836 W. 25th St.....Knoble Bros.
Colorado Springs, Colo......Crump, Frank F.
Colorado Springs, Colo......Pikes Peak Floral Co.
Corsicana, Texas.....Holm, Alfred
Council Bluffs, Ia., 321 Brodway.....Wilcox, J. F. & Sons
Danville, Ill......Smith, F. B. & Sons
Dayton, O., 112 S. Main St.....Heiss Company
Defiance, O......Winterich, Christ
Denver, Colo., 1643 Broadway.....The Park Floral Co.
Des Moines, Ia......Wilson Floral Co., J. S.
Detroit, Mich., 153 Bates St.....Bemb Floral Co., The L.
Detroit, Mich., Gratiot Ave. & Broadway..Breitmeyer's Sons, John
Detroit, Mich., Newland & Gratiot Aves.....Plumb, Chas. H.
Dubuque, Ia......Harkett's Floral Co.
El Paso, Texas, Mills Bldg.....Potter Floral Co.
Evansville, Ind., 522 Main St.....Blackman Floral Co., The Wm.
Evanston, Ill., 602 Davis St.....Welland, M.
Fargo, N. D......Smedley & Co.
Fayetteville, Ark., 18 W. Center St.....The Southwestern Seed Co.
Florence, S. C......The Palmetto Nurseries, De Witt House
Fond du Lac, Wis., 414 Linden St.....Haentze Co.
Fort Smith, Ark., 11 N. 8th St.....Brockman's Flower Shop
Fort Worth, Texas.....McAdam, J. E.
Galesburg, Ill......Pillsbury, I. L.
Grand Rapids, Mich., Monroe & Division Aves.....Smith, Henry
Greenfield, Mass......Richards, E. A.
Greensburg, Pa., 200 N. Main St.....Thomas, Joseph
Hartford, Conn......Coombs, John F.
Highland Park, Ill......Highland Park Greenhouses
Hoboken, N. J., 113 Hudson St.....Grullich, J. & Sons
Indianapolis, Ind., 241 Massachusetts Ave...Bertermann Bros. Co.
Indianapolis, Ind., 1610-1620 N. Illinois St..Wiegand's Sons Co., A.
Joliet, Ill., Hobbs Bldg.....Labo, Joseph
Kalamazoo, Mich., 141 S. Burdick St.....Van Bochove & Bro.
Kansas City, Mo., 913 Grand Ave.....Murray, Samuel
Kansas City, 1116 Walnut St.....Rock, W. L. Flower Co.
Knoxville, Tenn......"Home of Flowers," Baum, Chas. H.
Kokomo, Ind......Coles, W. W.
Lansing, Mich., 624 North Capitol Ave.....John A. Bissinger
Lexington, Ky., 12 East 6th St.....John A. Keller
Lincoln, Neb., 1338 O St.....Frey & Frey, Florists
London, Ont., Canada.....J. Gammage & Sons
Louisville, Ky., Masonic Temple.....Baumer, August R.
Louisville, Ky., 550 S. 4th Ave.....Schulz, Jacob
Lowell, Mass., 8 Merrimack Sq.....Morse & Beals
Macon, Ga......Idle Hour Nurseries
Mankato, Minn......Windmiller Co., The
Milwaukee, Wis., 349 3rd St.....Edlefsen-Leidiger Co.
Milwaukee, Wis......McKenney & Company, M. A.
Minneapolis, Minn., 34 S. 5th St., 932 Nicollet Ave., and Radisson Hotel.....Whitted Floral Co., H. B. Whitted, Prop.
Mobile, Ala......The Minge Floral Co.
Montgomery, Ala., 116 Dexter Ave.....Rosemont Gardens
Mt. Clemens, Mich......August Von Boeselager
Mt. Vernon, N. Y., 25 S. 4th Ave.....Dummett, Arthur
Nashville, Tenn......Joy Floral Company
Newark, O......Duerr, Chas. A.
New Castle, Pa., North Mercer St.....Butz Bros.
New Haven, Conn., 1026 Chapel St.....Champion & Co., J. N.
New London, Conn......Reuter's
New Orleans, La., 3442 St. Charles St.....The Avenue Floral Co.
New Orleans, La., 121 Baronne St.....Eble, Charles
New Orleans, La......Metairie Ridge Nursery Co.
New York, N. Y., Madison Ave. & 44th St.....Dards, Chas. A.
New York, N. Y., 611 Madison Ave., cor. 58th St., Myer, The Florist
New York, N. Y., 427 Fifth Ave.....Siebrecht & Son
New York, N. Y., 22 W. 59th St.....Schling, Max
New York, N. Y., 1153 Broadway.....Small, J. H. & Sons
New York, N. Y., 761 Fifth Ave.....Stumpp, Geo. M.
Norfolk, Va., Colonial Theatre Bldg.....Grandy, The Florist
Northampton, Mass......Field, H. W.
Norwich, Conn......Reuter's
Oklahoma City, Okla......Stiles Co., The
Omaha, Neb., 1519 Farnam.....Henderson, Lewis
Omaha, Neb......Hess & Swoboda
Owosso, Mich......Owosso Floral Co., Thiemann, Hermann
Palm Beach, Fla., Hotel Royal Poinciana.....Foster & Foster
Parkersburg, W. Va......Dudley & Sons, J. W.
Pasadena, Cal., 13 East Colorado St.....The Orchid
Passaic, N. J., 85 Broadway.....Scheery, Ed.
Paterson, N. J......Scheery, Edward
Philadelphia, Pa., 1800 Chestnut St.....The London Flower Shop
Philadelphia, Pa., 1514 Chestnut St.....Pennock Bros.
Phoenix, Ariz., Cretus Way & Wash. St....Donofrio's Floral Dept.
Pittsburgh, Pa., 5936 Penn Ave.....Randolph & McClements
Pittsfield, Mass., 40 Penn St.....The Flower Shop
Portland, Ore., 133 Sixth St.....Tonseth Floral Co.
Poughkeepsie, N. Y......Saltford Flower Shop
Quincy, Ill......Gentemann Bros.
Racine, Wis., 504 Wisconsin St.....Hinchliffe, Mrs. J. T.
Rochester, N. Y., 25 Clinton Ave.....J. B. Keller's Sons
Rockford, Ill......Buckbee, H. W.
Rockville Centre, N. Y......Ankers, Clarence R.
Saginaw, Mich., 117 S. Jefferson Ave.....Grohman, the Florist
San Francisco, Cal., 123-125 Kearny St.....Pelicano, Rossi & Co.
Saratoga Springs, N. Y., Lake & Nelson Aves....T. J. Totten, Inc.
Scranton, Pa......Clark, G. R.
Seattle, Wash., 1534 Second Ave.....Hollywood Gardens
Sedalia, Mo......Archias Floral Co.
Sheboygan, Wis., 625 N. 8th St.....Matthewson, J. E.
Sioux City, Ia......J. C. Rennison Company
Sioux City, Ia., 405 Douglas St.....Rocklin & Lehman
Spokane, Wash., 11 Post St.....Hoyt Bros. Co.
Springfield, Mass., 378 Main St.....Aitken, Mark
St. Joseph, Mo......Stuppy Floral Co.
St. Louis, Mo., 7th & Washington Ave.....Grimm & Gorly
St. Louis, Mo., 7041 Florissant Ave.....Meinhardt, Fred A.
St. Louis, Mo., 4326-28 Olive St.....Weber, Fred C.
St. Louis, Mo., Boyle & Maryland Aves.....Weber, Fred H.
St. Paul, Minn., 24 W. 5th St.....Holm & Olson
Tarrytown, N. Y......Pierson Co., F. R.
Terre Haute, Ind., 139 S. 7th St.....Heinl, John G. & Son
Toledo, O., 336 Superior St.....Freeman, Mrs. J. B.
Toledo, O., 2941 Cherry St.....Mrs. E. Suder
Topeka, Kan., 112 W. 8th Ave.....Mrs. Lord's Flower Room
Toronto, Ont., 123 King St., W.....Dillemuth, The Florist
Toronto, Ont., 266 Yonge St.....Simmons, J. S.
Washington, D. C., 1216 F St., N. W.....Gude Bros. Co.
Washington, D. C., 14th & G Sts.....Small, J. H., & Sons
Wellesley, Mass......The Wellesley Florist J. Tuthby & Son
Wheeling, W. Va......Langhans, Arthur
Wichita, Kan., 145 N. Main St.....Mueller, Chas. P.
Worcester, Mass., 371-373 Main St.....Lange, H. F. A.
Worcester, Mass., 3 Belmont St.....Randall's Flower Shop
Youngstown, O., 41 North Phelps St.....Geo. W. Kay
Youngstown, O., 11 S. Phelps St.....Walker, John
Zanesville, O., 54 N. 5th St.....The Imlay Company
Charleston, W. Va., 811 Quarrier St.
The Winter Floral Co., H. F. Winter, Prop.
Little Rock, Ark., 521 Main St.....Tipton & Hurst
Harrisburg, Pa., 313 Market St.....Charles Schmidt

Compare dues from $1.00 to $5.00 annually with other methods of obtaining results. Can you afford not to receive orders from the above members whose yearly Telegraph business is estimated over $500,000 annually? Guarantee orders to your customers. It will bring Results.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1881
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Hillsboro, O.—Simon J. Hyder.

Reading, Pa.—Moyer Bros., Eighth street.

Wilmington, Del.—M. F. Hayden, Dupont Bldg.

Beverly, Mass.—Karekian Tashjian, Market street.

Newburyport, Mass.—J. J. Comley, Pleasant street.

Lewiston, Me.—Saunders' Flower Shop, Lisbon street.

Bangor, Me.—Cushman & Worth, State and Park streets.

Newport, R. I.—Thomas J. Gibson, 36 Washington square.

STEAMER DEPARTURES

Allan.

Hesperian, Boston-Glasgow...Dec. 11

American.

New York, N. Y.-S'hampton..Dec. 5
St. Paul, N. Y. S'hampton....Dec. 12

Atlantic Transport.

Minneapolis, N. Y.-London...Dec. 6
Minnehaha, N. Y.-London....Dec. 13

Cunard.

Laconia, N. Y.-Mediter'n.... Dec. 2
Lusitania, N. Y.-Liverpool...Dec. 3
Alaunia, Boston-Liverpool... Dec. 9
Carpathia, N. Y.-Mediter'n...Dec. 9
Ivernia, N. Y.-Liverpool.....Dec. 10

French.

La Lorraine, N. Y. Havre.....Dec. 3
Niagara, N. Y.-Havre.....Dec. 6
La Savoie, N. Y.-Havre .....Dec. 10
Rochambeau, N. Y. Havre....Dec. 13

Hamburg-American.

Hamburg, Boston-Hamburg..Dec. 6
Pennsylvania, N. Y.-Hamb'g..Dec. 6
Ksn. Aug. Vic., N. Y.-H'mb'g.Dec. 9

Holland-America.

Potsdam, N. Y.-Rotterdam...Dec. 2
New Am'dam, N. Y.-Rot'dam.Dec. 9

Leyland.

Winifredian, Boston-Liverp'l.Dec. 6

North German Lloyd.

Kr. Cecilie, N. Y.-Bremen....Dec. 2
Berlin, N. Y.-Mediterraneun .Dec. 6
Fried. der Gr'se, N. Y.-Br'm'n.Dec. 9
Pr. Fried. Wil., N. Y.-Bremen.Dec. 13

Red Star.

Finland, N. Y. Antwerp.....Dec. 3

White Star.

Cymric, Boston-Liverpool.....Dec. 2
Adriatic, N. Y.-Liverpool.....Dec. 4
Olympic, N. Y.-S'hampton....Dec. 6
Canopic, Boston-Mediter'n....Dec. 11
Celtic, N. Y.-Liverpool.....Dec. 11
Majestic, N. Y.-S'hampton...Dec. 13

Houston, Tex.—H. H. Kuhlman Floral Co., Fannin street and Capital avenue.

Philadelphia, Pa.—Miller & McClane, 1416 S. Broad street; Chas. J. Brimmer, 2426 Frankford avenue.

St. Louis, Mo.—Grimm & Gorly, on Saturday, November 22, opened their new branch floral store in East St. Louis, Ill. Marion Uhlschmidt will manage this branch and a better selection among their employees could not have been made.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO FLORISTS 1214 F ST., N.W. WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

The Washington storekeepers are continuing their activity against the vendors of flowers who line the streets and offer their wares in many cases at less than the regular florists can purchase them. The florists have formed a temporary organization outside of the local club whose membership consists of wholesalers and growers as well as retailers, and have selected J. Louis Loose as chairman and O. A. C. Oehmler as secretary. They plan petitioning the District Commissioners in the matter, asking them to secure legislation which will require the street men to pay a license fee of $15 per annum, similar to that required of the storekeepers. Failing of action on the part of the Commissioners, the matter will be carried to Congress, which body makes all the laws pertaining to the District of Columbia.

SPECIAL
NEXT TWO WEEKS ONLY
RED CAPES

	5 Lb. Lots	10 Lb. Lots
WHITE, per lb.,	$ .85	$ .75
COLORED, per lb.,	1.10	1.00

Orders Rushed Out on Receipt
No Need to Use High-Priced Immortelles
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hots
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

GEORGE H. COOKE

FLORIST

Connecticut Ave. and L St., N. W.

WASHINGTON, D. C.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association



The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Apply to

Samples Sent Free

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

Florists' Refrigerators

Write us for catalogue and Prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you want it for display or only for storage.

McCray Refrigerator Co.

669 Lake Street, Kendallville, Ind.

Mention Horticulture when you write.

MOTHER OF PEARL LETTERS

THE LATEST NOVELTY

GOLD LETTERS

Send for Prices.

AMERICAN IMPORTING CO.

219 So. Dearborn Street, Chicago

CHICAGO NOTES.

Camellia plants with blossoms of a deep rose pink are particularly attractive as displayed in the store windows. They were grown at Frank Oechslin's.

Some of the down-town retailers report increased sales during the warm weather of last week, so it is again proven that "It is an ill wind that blows nobody good."

John Zeeh, West Madison street, Oak Park, has now a very pretty place and is both a grower and a retailer with well arranged store. Mr. Zeeh specializes in cyclamen from seed.

The begonia Cincinnati is steadily growing in favor with the retailers and makes a beautiful display in the windows. Its color and keeping qualities are both superior to the Lorraine.

At J. Kruchten's the Irish Fire Flame rose is being tried out this year. As a novelty it is taking well and the few blooms he has to spare always sell readily, short-stemmed stock bringing six cents.

The Land Show at the Coliseum is now in full swing. Joe Beaver, who has usually been in charge of the Chicago flower shows, has been assisting for many weeks in the preparations and speaks very highly of the exhibits which come from all parts of the United States.

At N. J. Wietor's they began cutting Sunburst in the summer and now there is a fine crop which will last till after Christmas if weather is favorable. Mr. Wietor is also much pleased with Milady and Mrs. Russell, though the wood is used for making stock, so few blooms can be cut. Next year these will be grown extensively.

Ernest Oechslin, on Madison street, River Forest, has his plant range nearly completed. There are 30,000 sq. ft. of glass and a fine new store occupies the west corner on the front. The place is now modern in every respect and Mr. Oechslin, like his brother, has an enviable reputation for growing fine plants. During the past summer the dwelling house was moved to another street and new greenhouses erected on its site, making the plant now one of convenience and well adapted to the growing of table ferns, Bostons, azaleas, poinsettias, cyclamen and other plants.

The kumquat, well loaded with fruit, to be used instead of orange plants for the holidays, is an innovation in Chicago. The difficulty and expense of securing well-fruited specimen plants of the otaheite orange, has made its use almost prohibitive and the two car loads of kumquats, which arrived here from the south last week, will give an opportunity to test its merits as a substitute. The plants are well branched, symmetrical in form, and while the fruit is smaller than that of the orange, it is more abundant. Some of the plants, 24 inches high, seen in the retailers' windows, carry from four to six dozen fruits.

Visitors: J. P. Golmis, Kansas City, Mo.; A. T. Bushong of Gary Floral Co., Gary, Ind.; Michael Segamo of Hammond Floral Co., Hammond, Ind.; August Kellner, Milwaukee, Wis.

Washington, D. C.—Fred H. Kramer, Leapley & Meyer and Gude Bros. Co., are among the interested merchants in the matter of securing better lighting for F and G streets, along which thoroughfares their respective stores are located. Work on installing a new system along Pennsylvania avenue is soon to be begun and it is hoped that the other two streets will receive attention next.

BOXWOOD

15 cents per pound

Very choice quality, no waste. Place your order now, and we will make shipment when wanted. We have some on hand now, and can make delivery on receipt of your order.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI October 27	CHICAGO November 18	BUFFALO November 24	PITTSBURG November 24
Am. Beauty, Special	20.00 to 25.00	20.00 to 30.00	50.00 to 60.00	20.00 to 35.00
" " Fancy and Extra	15.00 to 20.00	15.00 to 20.00	30.00 to 40.00	15.00 to 20.00
" " No. 1	10.00 to 15.00	10.00 to 15.00	20.00 to 25.00	10.00 to 15.00
Killarney, Extra	4.00 to 6.00	6.00 to 10.00	8.00 to 10.00	6.00 to 10.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 6.00	3.00 to 5.00
Richmond, Hillingdon, Extra	4.00 to 6.00	6.00 to 10.00	10.00 to 12.00	8.00 to 10.00
" " Ordinary	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00 to 10.00	6.00 to 10.00	8.00 to 10.00	8.00 to 10.00
" " " " Ordinary	..... to	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00
Russell, Shawyer	..... to	..... to	10.00 to 12.00	..... to .....
Carnations, Fancy	..... to 2.50	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00
" Ordinary	..... to 1.50	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Cattleyas	..... to 50.00	60.00 to 75.00	40.00 to 50.00	60.00 to 75.00
Cypripediums	..... to	..... to	12.00 to 15.00	..... to .....
Lilies, Longiflorum	12.50 to 15.00	8.00 to 10.00	10.00 to 12.00	8.00 to 10.00
Callas	..... to	6.00 to 8.00	10.00 to 12.00	6.00 to 8.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Freesias	..... to	..... to	..... to	2.00 to 3.00
Chrysanthmums	12.50 to 15.00	5.00 to 20.00	6.00 to 25.00	5.00 to 20.00
Violets	.35 to .50	.75 to 1.00	.75 to 1.00	.75 to 1.00
Daises	..... to	.75 to 1.00	.75 to 1.00	.75 to 1.00
Sweet Peas	..... to	.75 to 1.00	.50 to 1.00	1.00 to 2.00
Gardenias	..... to	25.00 to 50.00	40.00 to 50.00	25.00 to 30.00
Adiantum	..... to 1.00	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25
Smilax	..... to 12.50	12.00 to 18.00	..... to 15.00	12.00 to 15.00
Asparagus Plumous, Strings (100)	25.00 to 40.00	40.00 to 60.00	20.00 to 50.00	40.00 to 50.00
" " & Spren. (100 bchs.)	15.00 to 25.00	25.00 to 40.00	35.00 to 50.00	25.00 to 40.00

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 80

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.



CYPRIPEDIUMS

For immediate delivery or the Christmas trade fine large flowers, good rich green, $2.00 per dozen, $15.00 per 100.

GARDENIAS, SPECIAL, Per doz., $4.00.
FANCY, Per doz., $3 00.
VALLEY, SPECIAL, Per 100, $4.00.
FANCY, Per 100, $3.00.
BEAUTIES, Splendid Quality, $2.00, $3.00, $4.00, $5.00 per doz.

RIBBONS AND SUPPLIES. Many new patterns in exclusive ribbons. If you have not received one of our new catalogues, advise us immediately and we will mail you a copy.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 W. 28th St. | BALTIMORE Franklin & St. Paul Sts. | WASHINGTON 1216 H St., N. W.

Flower Market Reports

BOSTON As always, the Thanksgiving demand in Boston is all right, clearing up all the congested material that is fit to use and making a new standard of values for the coming weeks. Carnations are not doing as well as they should, however, in order to keep up to the record of past years. There are too many of them for the immediate demand. Roses are doing better, the new candidates bringing double prices, too, as compared with the old standbys, which is all right and proper. Chrysanthemums are not very fine as a rule, the rather warm weather having taken most of the nerve out of them already. Violets are slowly improving but it will require a couple of weeks of colder weather to bring them up to recognized standard. They are not over plenty, so the price stays at a respectable figure. Christmas plants are here already.

BUFFALO A full week of rain and cloudy weather and the market has finally got in such condition that prices are more satisfactory all around. The quantity of stock has shortened especially on the rose end and select stock touched the 12c. mark. Beauties are scarce and the prices also advanced. Chrysanthemums are enough and the quality good. Bonnaffon has been in heavy supply and has been the best seller, but mostly in medium grade and price. Lily of the valley, violets, lilies, stevia and Roman hyacinths are good. There are too many paper whites and too much smilax.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON November 26			ST. LOUIS November 24			PHILA November 24		
Roses									
Am. Beauty, Special	30.00	to	40.00	25.00	to	40.00	20.00	to	35.00
" " Fancy and Extra	20.00	to	25.00	18.00	to	20.00	12.50	to	16.00
" " No. 1	10.00	to	15.00	10.00	to	15.00	8.00	to	10.00
Killarney, Extra	6.00	to	10.00	6.00	to	10.00	4.00	to	8.00
" Ordinary	2.00	to	4.00	4.00	to	5.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	8.00	8.00	to	12.00	4.00	to	8.00
" " Ordinary	2.00	to	4.00	5.00	to	6.00	1.00	to	3.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	12.00	8.00	to	10.00	4.00	to	8.00
" " " Ordinary	2.00	to	4.00	4.00	to	6.00	1.00	to	3.00
Russell, Shawyer	.....	to	15.00	.....	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	4.00	3.00	to	4.00	2.00	to	3.00
" Ordinary	1.00	to	2.00	2.00	to	2.50	1.00	to	1.50
Cattleyas	40.00	to	50.00	40.00	to	50.00	25.00	to	40.00
Cypripediums	.....	to	15.00	.....	to	.....	.....	to	.....
Lilies, Longiflorum	6.00	to	8.00	12.00	to	15.00	8.00	to	12.50
Callas	.....	to	.....	10.00	to	12.00	.....	to	.....
Lily of the Valley	1.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Paper Whites, Roman Hyacinths	.....	to	3.00	3.00	to	4.00	....	to	.....
Freesias	.....	to	.....	3.00	to	4.00	.....	to	.....
Chrysanthmums	8.00	to	20.00	10.00	to	25.00	3.00	to	20.00
Violets	.75	to	1.00	.40	to	.75	.40	to	.75
Daisies	.....	to	1.00	.....	to	.....	.50	to	1.50
Sweet Peas	.....	to	1.00	.50	to	.75	....	to	.....
Gardenias	25.00	to	35.00	.....	to	.....	12.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	12.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	20.00	to	30.00	15.00	to	25.00	35.00	to	50.00

CHICAGO As the season advances prices are better on chrysanthemums though not by any means excessive. This week's sales will be the heaviest of the season, but there are still two weeks before the queen of the fall will be gone. With plants the same condition prevails, the late varieties only being left. Carnations are plentiful and are not expected to reach so high a price as on some Thanksgivings. Killarney and Sunburst roses are both very pale, the unseasonably hot weather of the past week having faded them out, but they are selling without a reduction in price. There is not a particularly large supply of American Beauties coming into the market now. Bouvardia, in pink and white, is here in limited quantity and quickly bought up. The warm weather caused some eastern violets to arrive in poor condition, but with the lower temperature quality is good and stock moves quickly. A few butterfly sweet peas and a fair supply of common ones are to be had. Stevia is not meeting with much demand and paper whites sell slowly. Green is in good supply.

(Continued on page 751)

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1593 / 5893 } Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Whole-Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 22 1913	First Half of Week beginning Nov. 24 1913
American Beauty, Special	12.00 to 25.00	25.00 to 40.00
" " Fancy and Extra	10.00 to 12.00	12.00 to 15.00
" " No. 1	6.00 to 8.00	6.00 to 10.00
Killarney, Extra	3.00 to 4.00	3.00 to 8.00
" Ordinary	1.00 to 2.00	2.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 4.00	3.00 to 8.00
" " Ordinary	1.00 to 2.00	2.00 to 3.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 6.00	6.00 to 12.00
" " " " Ordinary	2.00 to 3.00	2.00 to 4.00
Russell, Shawyer	.... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 4.00
" Ordinary	1.00 to 1.50	1.00 to 1.50

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON, Pres MAURICE L. GLASS Treas
CHAS E. ROBINSON, V-Pres JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST....NEW YORK CITY
Special Attention to the Shipping Trade

LISTEN HERE

Thanksgiving Goods are now ripe. Get busy and pick them early. Elegant little flower receptacles of Delft Imperial Ware, Brownies, etc., Ferneries, Baskets and Vases. All New Goods. Sterling Novelties now offered for the First time. Tempting prices on our Special Gold Letters, Script and Block and Mother of Pearl.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N.Y.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

41 West 28th Street, NEW YORK

B. S. SLINN, JR.

VIOLETS

CARNATIONS, ROSES

55 and 57 W. 26th St., New York

Shipping Orders Carefully Filled

EDWARD REID

WHOLESALE FLORIST

1619-21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 749)

CINCINNATI The market has tightened considerably in some lines. The demand from out-of-town is very strong. Bright, warm weather for the last week has brought on blooms very fast and probably enabled us to have an adequate supply for Thanksgiving. Quite a few of the flowers, however, were soft from the effects of the sun's rays. Chrysanthemum receipts include some very fine White and Yellow Chadwick and Mrs. Jerome Jones. Pompon receipts are also large. Rose cuts are growing in size. The demand for them, while good, was during the larger part of last week hardly strong enough to take up all. The American Beauty cut is small and receipts clean up quickly. Carnations are coming in better both in respect to numbers and quality. Other stock in usual variety.

NEW YORK The situation is somewhat improved in this market, prices being maintained fairly well on some items and the overwhelming surplus on others being now well under control. The Thanksgiving hustle will cut off the overstock of chrysanthemums which has been an obstruction in the way of the movement for better prices on staple goods. Quality on roses is improving, despite the abnormally high temperatures which have a debilitating effect on most varieties. Carnations are increasing in number but not advancing much in quality. The approved rose novelties will have a clear field this year and will bring sensational prices.

PHILADELPHIA The warm weather has been against the keeping quality and finish of stock and while there has not been a great deal of vim and life to the market still on the whole it has been fairly satisfactory. There has been some surplus, of course, especially in chrysanthemums and white roses. The former are now past the meridian but there are still plenty of good flowers around and will be for some time. The best now are Bonnaffon, Chadwick and Eaton—both yellow and white in each. A few Jeanne Nonin have just made their appearance. Prices on American Beauty and some other roses have hardened considerably and the quality has also improved. There are some very fine Russells to be seen now—length of stem especially, showing better than on the first cuttings. Jonkheer very scarce and hardly enough for the local trade. Carnations getting better all the time. These became a little more plentiful last week and prices held even. Early bookings for Thanksgiving week show the usual advance of about 25 per cent. Orchids are "scarcening" up a bit and bringing better prices. Gardenias and violets are at their best and very popular. New crop bronze galax and new crop

(Continued on page ...)

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 22 1913	First Half of Week beginning Nov. 24 1913
Cattleyas	30.00 to 50.00	40.00 to 60.00
Cypripediums	..... to	..... to 15.00
Lilies, Longiflorum	4.00 to 5.00	4.00 to 6.00
Callas	..... to	..... to 10.00
Lily of the Valley	2.00 to 3.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	..... to	... to 3.00
Freesias	..... to	..... to .....
Chrysanthemums	6.00 to 25.00	6.00 to 25.00
Violets	.50 to 1.00	.50 to 1.00
Daises	.50 to 1.00	.50 to 1.00
Sweet Peas	.... to	..... to .....
Gardenias	25.00 to 35.00	25.00 to 35.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	..... to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Plants of Celebrity.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For Christmas
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Lilium Henryi. Special Offer Coupon.
For page see List of Advertisers.

A. Henderson & Co., 369 River St., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Weeber & Don, New York.
Mammoth Narcissus Bulbs.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Jersey Grown Callas.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

Conard & Jones Co., West Grove, Penn.
Swanetka Brand Cannas.
For page see List of Advertisers.

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

E. G. Hill Co., Richmond, Ind.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

CHRYSANTHEMUMS STOCK PLANTS —Major Bonnaffon, Smith's Advance, $4.00 per 100. DEAL FLORAL CO., Deal, N. J.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZECH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

DAHLIAS

J. K. Alexander, "The Dahlia King," East Bridgewater, Mass.
For page see List of Advertisers.

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE

Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 727

FERNS—Continued

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
273 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

Komada Bros., 1008 Vine St.,
Philadelphia, Pa.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., 38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

GLADIOLUS

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co.,
1133 Broadway, New York.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PINKS

HARDY PINKS—Large, bushy plants, $6.00 per 100. Cash. DEAL FLORAL CO., Deal, N. J.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide.
New York City.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

JERUSALEM CHERRIES—6-in. pots, full of berries, $20.00 per 100. Cash. DEAL FLORAL CO., Deal, N. J.

KENTIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
Lilium Henryi.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

MASTICA
F. O. Pierce Co., 12 West Broadway, N. Y.
For page see List of Advertisers.

MUSHROOM SPAWN
Wm. Elliott & Sons, New York.
For page see List of Advertisers.

NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Forcing Shrubs and Plants.
For page see List of Advertisers.

ONION SETS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS
Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued
August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT
J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES
J. M. Thorburn Co., 53 Barclay St., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS
August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POTASH
German Kali Works, Inc., 42 Broadway, New York.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS
McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass
For page see List of Advertisers.

ROSES—Continued
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIA GREGGII
Baker Bros. Co., Ft. Worth, Tex.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
New Crop Seeds.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., 11 Warren St., N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.
For page see List of Advertisers.

J. Oliver Johnson, 1661 North Leavitt St., Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

J. J. Wilson Seed Co., 79 Orange St., Newark, N. J.
Flower Seeds for Florists
For page see List of Advertisers.

For List of Advertisers See Page 727

SEEDS—Continued

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SPIREAS

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Komada Bros., 1008 Vine St., Philadelphia, Pa.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

B. S. Slinn, Jr., 55 and 57 West 26th St., New York City.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

APHICIDE POWDER.

The H. A. Stoothoff Co., 13-15 Prospect Ave., Mt. Vernon, N. Y.
For page see List of Advertisers.

BABY GLADIOLI AND FREESIAS.

Arthur T. Boddington, New York City.
For page see List of Advertisers.

CYCLAMENS.

C. Winterich, Defiance, Ohio.
For page see List of Advertisers.

CYPRIPEDIUMS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

FERNS FOR DISHES.

Ernest Oechlin, Gale Ave. and Madison St., River Forest, Ill.
For page see List of Advertisers.

FLOWERING PLANTS.

A. L. Miller, Jamaica Ave., opp. Schenck Ave., Brooklyn, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Joy Floral Co., Nashville, Tenn.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Florists' Telegraph Delivery Association, Albert Pochelon, Sec., 153 Bates St., Detroit, Mich.
For page see List of Advertisers.

LILY OF THE VALLEY—CLUMPS AND PIPS.

J. M. Thorburn & Co., 53 Barclay St., New York.
For page see List of Advertisers.

LILY OF THE VALLEY—COLD STORAGE.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

PLANTS FOR CHRISTMAS.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

SPIRAEA CLUMPS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

VARIEGATED FUNKIAS.

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—At a bargain, 8 acres of land, finest soil in Illinois; located on section line on northwest side of Chicago; city water, convenient to two R. R. stations, stone road to property; for particulars on this and other property suitable for greenhouse plants, address PETER PEARSON, 5732 Gunnison St., Chicago.

Flower Market Reports

(Continued from page 751)

boxwood sprays are features of the greens market. Forced pussy willows are also to be seen already.

ST. LOUIS The market was fine last week and the wholesale houses were well supplied with stock. Violets are fine and obtainable in any quantity. Chrysanthemums too are in heavy in all varieties and pompons are selling well. Roses are fine but not any too many. Carnations at last are coming in plentiful. These have been scarce all season but from now on there will be plenty. Other things normal.

WASHINGTON Considerable business was given to the local florists in the way of bouquets, etc., sent by the members of the Diplomatic Corps, of Congress, the Cabinet, and members of society to Miss Jessie Wilson, daughter of the President, on the occasion of her marriage which took place on Tuesday last. Practically every store in town got a share of this good luck and some very creditable pieces were turned out. The warm weather of the past week was unprecedented in the history of the city. It was almost as warm as in June and the market was flooded with stock. Prices took a decided drop in many instances although on some flowers they remained quite firm. Lily of the valley is in heavy demand and the better grades of roses and carnations are finding a ready market due to the demand created by the Wilson-Sayre wedding. This is also true of orchids of which many of the bouquets consisted. The quality of violets is not as good as it has been and the demand for this flower has decreased. Chrysanthemums formed the bulk of the business done on Saturday last when this popular "football' flower moved well. The florists are looking forward to better business conditions next month due to the many weddings and other entertainments already booked.

PUBLICATIONS RECEIVED.

Famous Frontiersmen, by Charles H. L. Johnson. This is another of L. C. Page & Co.'s popular books for boys. It comes at an opportune time, for any real live boy who receives this volume as a Christmas gift will not lack in appreciation. Stories of the adventurous lives and stirring experiences of the heroes of the border in pioneer days have been a never-failing source of delight for boys of all ages and this book which, by the way, is dedicated to the Boy Scouts of the world, is one of the better class, its tales being vouched for as true and its characters having been real actors in the long struggle between savagery and civilization in the early days of our country. This publication is uniform in style with "Famous Cavalry Leaders," "Famous Scouts," etc., by the same author. Price $1.50 net, L. C. Page & Co., Boston, publishers.

Making the Farm Pay, by C. C. Bowsfield. A good and useful book on an all-important subject. An enormous amount of information has been assembled in condensed form and trite language in its 316 pages. It is practical from first to last. It tells how to mix brains with the soil and get the most out of an acre.

Every phase of agriculture is considered,—the raising of vegetables, fruit, flowers, poultry and stock. Intensive farming and diversified farming are ably handled. The care of the soil, the treatment of farm diseases, the use of by-products, intelligently meeting the market demands and selling at the best price are a few of the important topics which are treated with great care.

In reading this book we have been impressed with the author's large view of country life; he grasps the relation of farming to the entire life of the nation, seeing it not only as a practical farmer but from the viewpoint of the statesman, the financier and students of affairs. By informing the farmer on the subject of market conditions he brings the producer and consumer closer together for their mutual benefit. By giving him the benefit of the latest agricultural developments and methods the author not only tells the farmer how to make more money but how to make his life more happy and comfortable, how to make the farm so attractive that his young people will prefer to remain there rather than seek the uncertain rewards of the city.

The book will be of immense value to every farmer, large and small; and any city man would add greatly to his store of useful knowledge by reading this valuable book. Published by Forbes & Co., Chicago. Price $1.00 net.

"The Spell of Switzerland," by Nathan Haskell Dole, published by L. C. Page & Co., Boston. A delightfully informal book of travel, with copious illustrations, so that the reader seems to be making the journey through the Alpine country with a chatty and well-informed companion. It is cast upon a slender thread of fiction, bringing in other characters besides the narrator, but this does not dim the clear descriptions and the effective bits of history and of poetry that are introduced, Byron, Coleridge, the Napoleonic crossing of the Alps, etc.

Lausanne has an especial charm for New Englanders, for its life and houses and some of its scenery are not unlike what can be found in parts of New Hampshire and Maine, and it is pleasant to find Mr. Dole giving considerable space to this charming part of Switzerland. Of course a literateur, like the author, would give a full account of Gibbon's sojourn at Lausanne. Lake Leman, Chillon's castle, Geneva, and equally of course a literary account of Jean Jacques Rousseau, pass in succession, and then the Alps. There is a fair amount of mountain-climbing in the book, but among the many illustrations we find none that pictures the horrors of Alpine accidents, such as are displayed in all the shop-windows at Chamounix, nor does our author dwell upon the many fleecings which beset the tourist, the girl with edelweiss, the maiden who sings Swiss folk-songs out of tune, the zither-players who lay in wait for one's small change in the ice cave, the man with a pistol who does not come to rob you by violence but by awakening the echoes in some chasm, the man with the eight-foot long Alpine horn; some of these are mentioned, but not in the grouchy manner in which most travelers mention them after having been bled of all their bits of coin. Altogether a very agreeable, graphic and reliable book of travel.

Alliance, O.—The Lamborn Floral Company suffered considerable damage from the wet snow on its greenhouses last week.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

APHICIDE POWDER
(FORMERLY THE FUMIGATING KIND)
KILLS ALL APHIS
$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.
WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU
If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.
THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.



NIKOTEEN 30 Per Cent Strength **For Spraying**
APHIS PUNK 40 Per Cent Strength **For Fumigating**
ASK YOUR DEALER FOR IT.
Guaranteed under the Insecticide Act of 1910, U. S. No. 46.
NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

When Writing to Advertisers Please Mention Horticulture

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

NIKOTIANA is a 12% nicotine solution specifically adapted for fumigating or vaporizing greenhouses.

NIKOTIANA is vaporized over small lamps or by painting on steampipes.

VAPORIZING with **NIKOTIANA** fills the house with nicotine fumes which will effectively destroy the insects intended for.

FUMIGATING with tobacco paper or tobacco dust fills the house with smoke which is not beneficial to plant life.

Quarts, $1.50. Gallons, $4.50

For sale by seedsmen and supply houses.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — SCALINE
VERMINE

British Distributors:
BRITISH & AMERICAN FERTILIZING CO.
Liverpool, England

Mention HORTICULTURE when writing

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In Writing Advertisers Kindly Mention HORTICULTURE

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

Obituary

Mrs. Avery.

Mrs. Avery, for the past two years a florist on Pico street, Los Angeles, Cal., died suddenly November 11th, from apoplexy. She was formerly from Chicago.

Charles W. Blatchley.

Charles W. Blatchley, whose critical illness with pneumonia was mentioned in our last week's issue, died on November 17, at Southington, Conn., aged 65 years. He and his son were engaged in the florist business with greenhouses at Milldale and store at Meriden. He leaves three sons and three daughters.

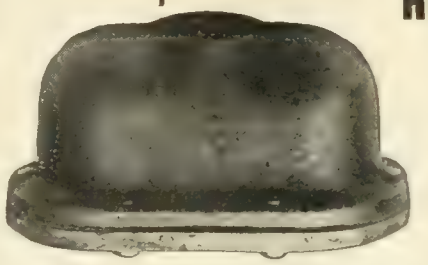
John De Wolf.

John De Wolf, at one time superintendent of parks in New York died of Bright's Disease on November 23, at Bristol, Conn., at the home of his brother-in-law, Nathaniel G. Herreshoff. He was 64 years old. Mr. De Wolf, who came of a distinguished family, was widely known as a landscape architect. He was in charge of the laying out of Prospect Park, Brooklyn. A sister survives him.

Harley James.

The news has just been received without particulars, of the death of Harley James at St. Georges, Bermuda. Mr. James has been mayor of St. Georges, for the past two years. He is best known to our readers as a leading shipper of Bermuda lily bulbs for many years. Personally he was a quiet-mannered, urbane and hospitable gentleman. In his business transactions he was honorable always. His death is a serious loss to Bermuda.

KING AUTOMATIC AIR VALVE
FOR
HOT WATER HEATING



This little valve will keep your hot water system absolutely free from air. Place one on the high point of the coils and your air troubles will be over. Price $2.00 each, charges paid.

KING CONSTRUCTION CO., 28 King's Road North Tonawanda, N. Y
Makers of King Iron Frame Greenhouses

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A DREER, 714 Chestnut Street, Philadelphia.



MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money
W. H. ERNEST
28th & M Sts. Washington, D. C.

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Mention HORTICULTURE when writing.

When writing to advertisers kindly mention HORTICULTURE.



Erected for Mr. Geo. Jones, Elizabeth, N. J. Henry McKendray is the Gardener.

A Curved Eave Effect

LACK of side ventilation is a criticism of the curved eave house made by some gardeners. The wall vents do not answer their purpose.

That's why many of them prefer our good old stand by sill and gutter house with the side vents hinged to the gutter.

But cheer up! You can have a curved eave house with side ventilation and still not make a botchy looking job.

We have recently solved the problem.

Glad to send you particulars.

Write to any of our three Sales Offices nearest you.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

Order Now!



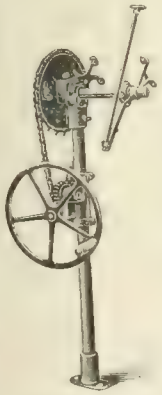
Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

Mention HORTICULTURE when writing

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Greenhouse Materials

FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass. For particulars address

John G. Esler, Sec'y Saddle River, N.J.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.

Write for free Catalogue to

QUAKER CITY MACHINE CO.
Richmond, Ind.

FOR SALE

Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.

ROBT. ROSS JONES, Harrisburg, Pa.

Mention HORTICULTURE when writing

Clean Cut

IF you were to choose between a clean cut, neatly sharpened lead pencil and a blunt raggedy one; there isn't a bit of doubt which it would be.

When it comes to a greenhouse that is a splendid bit of light clean cut construction like the U Bar, in comparison with the blunt heavy construction of other constructions, you should very naturally always select the U-Bar.

But some of you don't—not always.

You don't, because of three reasons. Here are the reasons:

1. "You say other curved eave houses are just as light."

But are they?

Can you make yourself believe that a house with wooden roof bars, flat iron rafters and a heavy reinforcement at the eaves, can compare in lightness with a house that combines roof bar and rafter **in one**, especially when such a combination isn't any larger than the roof bar used in other constructions?

If such a thing is true, then two pounds don't weigh any more than one pound.

2. You say that "other constructions which cost less, will last just as long."

Well now will they?

Isn't it reasonable to think that a roof bar, that is first steeped in a chemical preservative and then encased in a galvanized steel U-Bar, so that absolutely none of it is exposed to the interior destructive conditions of varying moisture and dryness, will last longer than bars that are entirely exposed and only painted?

If they won't—then water isn't wet and fire doesn't burn.

3. You say the U-Bar house "costs too much." But does it?

Don't you expect to pay more for a six cylinder automobile than for only a four cylinder one?

Isn't it only logical that a house with a complete frame of galvanized aluminum coated steel, should cost more than one of wood and steel that is only painted?

Not only should it cost more, but be worth a good bit more than it costs.

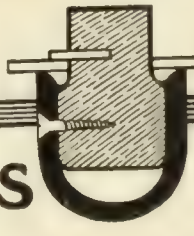
These then are the three main reasons—and their answers.

If you are still in an argumentative mood, we would welcome the opportunity to carry the discussion still further.

Not that we are scouting about the country "looking for an argument;" but we know, that if you only knew what we know, about the U-Bar construction—no amount of clever sales talk could possibly talk you into having anything else.

Our next talk is going to be about "Jumbled Together." Watch out for it





U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. DECEMBER 6, 1913 No. 23



NEW CARNATION MATCHLESS
The Cottage Garden Co.'s Matchless White.

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless**, the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class—21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS
COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK



THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

HEADQUARTERS FOR
LILIUM TENUIFOLIUM

If you need 12—100—1000 or 10,000 we have them here waiting for your orders.

75c per doz., $6.00 per 100, $50.00 per 1000
6 per cent for cash with order

If you cannot secure **AMARYLLIS FORMOSISSIMA** elsewhere we can supply you at $5.00 per 100.

We have many splendid bulbs at **FLOWERFIELD** all ready for prompt shipment.

JOHN LEWIS CHILDS, FLOWERFIELD, L. I., N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE.

You Cannot Possibly Go Wrong
by investing in the
PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.
1218 Betz Building
Philadelphia, Pa.

FRESH STOCK **LILIUM GIGANTEUM 8-9 in.**
L. Speciosum, Rubrums, Magnificums and Albums, 8-9 in.
WRITE FOR PRICES
YOKOHAMA NURSERY CO., Ltd. 51 Barclay Street, NEW YORK, N. Y.

We grow large quantities of
Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List
R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

PLANT GROWERS

Send A List of What You Have to Sell in Holiday Stock

I have a market for all pot plants you can supply in good quality and reasonable price if you LET ME KNOW EARLY.

C. C. TREPEL, LOESER'S, Brooklyn, N. Y.
BLOOMINGDALE BROS., New York City
GIMBEL'S, New York City

Largest Retail Plant Dealer in the United States

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.50 per 100; $30.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO
Mention HORTICULTURE when writing

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

JAPANESE and CHINESE LILIES
HOHMANN'S LILY of the VALLEY
FRENCH and DUTCH BULBS
HOLLAND and BELGIUM PLANTS, Etc.

Write for Quotations

LIST OF ADVERTISERS

Page
Advance Co.....795
Albany Cut Flower Ex.....786
Allen, J. K.....786
Am. Importing Co. 783
Anderson, S. A..782
Aphine Mfg. Co.793
Aschmann, G....775
Ayres Co., S. Bryson 778
Badgley, Reidel & Mayer.....786
Balsley, Harry...795
Barrows & Son.764
Bayersdorfer, H. & Co. 783
Bay State Nurseries 777
Bloomingdale's, 780
Bobbink & Atkins 777
Boddington, A. T. 773
Bolgiano & Son, J. 779
Boston Florist Letter Co.....784
Braslan Seed Growers' Co...779
Breck, J. & Sons.779
Breck-Robinson Nurseries 777
Breitmeyer's, J. Sons 780
Brookland Gardens 763
Bryan, Alonzo J.776
Burnett Bros. ...779
Burpee, W. A. & Co. 779
California Florist 781
California Seed Growers' Asso.779
Chicago Carnation Co.....784
Cooke, Geo. H...782
Childs, John Lewis 762
Conard & Jones Co. 775
Consumers Fertilizer Co.....793
Clarke's, D. Sons.780
Conine, F. E. Nursery Co....775
Cottage Gardens Co. 762
Cowee, W. J....784
Craig, Robt. Co.762
Dards 780
Davenport, A. M.775
Dawson, H. S...764
Detroit Flower Pot Co.....795
Lorner & Sons Co. 764
Dreer, H. A. 777-794-795
Dunlop, John H.781
Dysart, R. J....784
Eastern Nurseries 764
Edwards Folding Box Co.....784
Elliott's, W. Sons.779
Eppstein, Julius.781
Ernest, W. H...795
Esler, J. G. . 795
Eyres 782
Farquhar, R. & J. & Co. 776
Felix & Dykmans 776
Felthousen, J. E.776
Ford, W. P.....786
Ford, M. C.....786
Forrest, Frank H.781
Fottler, Fiske, Rawson Co....779
Freeman Orchid Co 773
Framingham Nurseries 777
Froment, H. E..786
Galvin, Thos. F. 781-782
Gasser, J. M. Co.781
German Kali-Works 792
Goodsell, P. H..777
Grey, T. J. Co..779
Gude Bros. Co..781
Hail Association.795
Hall & Robinson.781
Hart, Geo. B....787
Heacock, Jos.....762
Heinecken, Otto.779
Henderson, A....775
Hess & Swoboda.780
Hews, A. H. & Co. 795
Hill, E. G. Co..784
Holland Nurseries 776
Hilfinger Bros..795
Holm & Olson..780
Hudson Carbon Co. 793
Industry Moss & Peat Co.....773
Jacobs, S.& Sons.795
Johnson, J. Oliver 779
Jones, Robert Ross 795
Joy Floral Co...781
Kasting, W. F. Co. 787
Kelway & Son 778
Kervan Co 786
Keller, J.B.Sons.780
Keller, J. M. Co.764
King Construction Co. . 794
Komada Bros....783
Kramer, F. H...781
Kreuschell Bros.795
Kuebler, W. H..786
Lager & Hurrell.773
Lemon Oil Co 792
Leonard Seed Co.779
Leuthy, A. & Co.764
Loechner & Co..778
Lord & Burnham Co. 796
MacMulkin, E....781
May & Co., L. L.782
McCarthy, N. F. Co. 784
McConnell, Alex.780
McCray Refrigerator Co.....783
McHutchison & Co. 764
McKenna & Son, P. 781
McKenzie, John.764
McManus, Jas...786
Meyer, J. C. Thread Co. 783
Michell's Seed House 778
Michigan Cut Flower Ex 784
Millang, Chas....786
Millang, Frank 786
Miller, A. L. . 776
Montreal Floral Exchange ... 786
Moore, Hentz & Nash 786
Murray, Samuel.780
National Nurseryman 777
Nicotine Mfg. Co.793
Niessen, Leo. Co.784
N. Y. Stable Manure Co 793
Oechslin, Ernest.775
Oechslin, Frank.763
Ouwerkerk, P...776
Park Floral Co..780
Palmer, W. J. & Son 782
Parshelsky Bros.795
Pennock-Meehan Co. 785
Penn the Florist.781
Peterson, J. A...771
Pierson, A. N...764
Pierson, F. R. Co.782
Plant Food Co., 20th Century...793
Poehlmann Bros. Co. 774-784
Pollworth, C. C.780
Pratt, B. G. Co.793
Pulverized Manure Co.....793
Quaker City Machine Co.....795
Randall's Flower Shop 782
Reed & Keller..786
Reid, Edw. 787
Reinberg, Peter..784
Reuter's 782
Reuter, S. J. & Son 775
Rice, M. Co. ...781
Robinson Co., H. M. 786
Rochrs, J. Co...773
Roland, Thomas.764
Rolker, A. & Sons . 764-795
Rosery, The .780
Sander & Son 773
Scott, John ... 764
Scott, Robt. & Son 775
Sehling, Max....781
Schwake, Chas. & Co.....763
Sheridan, W. F.786
Sharp, Partridge & Co.....795
Shepard's Garden Carnation Co..776
Siebrecht, Geo. C.786
Siggers & Siggers 795
Skidelsky, S. S. & Co. 762-779
Slinn, B. S.....787
Smith, P. J.....786
Smith & Co., E. D. 777
Smith, W.& T.Co.777
Smyth, Wm. J..780
Sprague, J. H..773
Stearns, A. T. Lumber Co....795
Stoothoff, H. A. Co. 792
Stumpp, Geo. M.780
Totty, Chas. H..763
Thorburn, J. M. & Co.....779
Traendly & Schenck 786
Trepel, C. C....763
United Refrigerating & Ice Machine Co.....782
Valentine, J. A..780
Vincent, R., Jr., & Sons Co....762
Van Assche, F..795
Wants, For Sale 791
Ward, R. M. & Co. 764
Weber, F. C....781
Welch Bros..774-796
Whittier & Co., W. B. 777
Wilson, J. J. Seed Co. 779
Wilson, Robt. G.780
Winterich, C....775
Wood Bros 764
Woodrow & Marshalls 787
Yokohama Nurseries 762
Young, A. T. 787
Young, John 786
Young & Nugent 780
Zangen, O. V. 779
Zinn, J. A. 781
Zvolanek, Ant. C.779

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 788,789, 790, 791

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per caae of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

RALPH M. WARD & CO.

THE LILY HOUSE

Not How Cheap But How Good

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

CYCLAMEN

Best strain in existence.

4 inch $25.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

A. N. Pierson, Inc.,

CROMWELL CONN.
Bedding Plants and Roses

AZALEAS

Extra fine Plants of the Christmas and Easter Variety.
BOSTON FERNS, ARDISIAS
Send for prices.
JOHN McKENZIE, North Cambridge, Mass.

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN N Y

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

AUGUST RÖLKER & SONS

Import for the Trade only
AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.
P. O. Box 752 or 51 Barclay St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS
On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.
250 at 1000 rates.
H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Christmas Azaleas

There are few more popular Christmas plants than azaleas, the bright colored sorts, such as Hexe and Mme. Petrick selling particularly well, although other colors are also desirable. We give them 60 degrees at night as soon as the first flowers begin to open, but a lower temperature will be in order if they promise to open by Dec. 15. The longer they can be kept at about 55 degrees or even 50 degrees before they go to the store the better. Any at all backward must have plenty of heat; 65 degrees at night is not too much. Spraying freely, hard forcing will cause the plants to make growths ahead of the flowers, and these young shoots should be rubbed off, as they check the development of the flower buds. Don't overlook the proper watering of the plants, especially when in the forcing house. They should never suffer on that account, as it is always sure to show bad effects.

Lilies for Christmas

All lilies intended for that date should be so far advanced as to have the buds begin to turn white twelve to fourteen days before Christmas. They can stand a temperature from 60 degrees to 70 degrees during the night and with a rise of from 15 to 20 degrees during sunny days. When they have their flowers well expanded they should be given a lower temperature, but remember they will not relish cold draughts, which will cause them to wilt. To properly harden them off, it is best to treat them gradually until you have them in a temperature of about 50 degrees, night. See that they are kept clean of fly, as there is nothing more unsightly than lilies with green fly on. Go over your plants often and give them water at the roots as they must not be allowed to become dry and see that the pots are all made clean by washing.

Manure for Florists' Crop

Florists all agree in giving a good grade of well-decayed barnyard manure first place among fertilizers for general use, but all experience the same difficulty in procuring it in a condition sufficiently decomposed for immediate use. They must therefore lay in fresh manure which at this time of the year is not hard to obtain. Pile it up and give it time to decay. In doing this it must be remembered that the shrinkage in bulk through decomposition is considerable, and that in laying up a supply for the entire coming season due allowance must be made on this score. Forked over once or twice during the progress of decomposition it will be in proper condition for use next spring. Horse manure, if not stirred up frequently, burns quickly and is then of little value. It should always be kept in a soaked condition by letting the hose have a play on it occasionally should no rains fall. Refuse or spent brewers' hops quickly but somewhat fiercely pass through the stage of fermentation and need no forking.

Propagating Carnations

While it is a little early to propagate most varieties, yet in many cases it is well to begin as soon as you can. There are varieties that grow slowly and need a long growing period. In working up a stock of some fine variety don't be over-anxious to get as many cuttings as possible, but rather try to get as many good plants as possible. A thousand weak runts are not nearly so good as a hundred fine, strong plants when housing time comes. Opinion seems to be pretty generally settled as to the proper cutting to take, the young shoots around the base of the flower stems, or the young shoots that grow after the flower shoot has been topped back. Both of these will make high-grade stock. Avoid the side shoots from up around the middle of the flower stem or the young flower shoots that have begun to lengthen out. When taking off cuttings try to select a uniform size and be sure they are well matured. When trimming them, cut back the leaves that stand outward, taking off one-fourth to one-third of the leaf, but never cut back the tip of young leaves that have not spread apart.

Soils for Winter

Make it an aim to have a good pile of soil hauled and placed under cover where it can be kept in a dry condition. Late fall is a very good time to haul earth, manure, sod and sand, and is the most propitious time for piling up, composting and storing bench and potting soils. Prudent and ample provision for the needs of the season now fully entered upon and that to follow should now be made. Success with any kind of plants under closely strained cultivation depends to a considerable extent on the kind and condition of soil in which they are growing. Soils and composts should never be allowed to run out on any place where plants are grown commercially; there should be at all times a supply of soils ready for immediate use and for whatever purpose needed. So seize the opportunity now and lay in a good supply for potting. Since it is well-nigh impossible to obtain soils fit for immediate use from any source save our own place of storage it is well to have this well-stocked at nearly all times.

Start Freesias for Easter

Now is the time to start freesias wanted in flower for Easter. It always pays to grow some in pans as they make a fine show for that date. Fill some 6-inch pans with a good rich compost of fibrous loam three parts, and one of cow or stable manure. In these you can place from 16 to 18 bulbs in each pan. Place in a house about 50 degrees at night. Water with care until they become well-rooted when they should have plenty. Later on they will stand a temperature 55 to 58 degrees.

Mr. Farrell's next notes will be on the following: Cyclamen; Decorative Greens; Flowering Plants for Christmas; Orchids; Winter Protection; Protecting Pansies.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Making a Vine Border

Making a new vine border is a thing which does not occur every year so when there is one or more to be made up see that the best material is put into it. These borders when made properly and the vine given proper treatment, will last a number of years, in some instances the life of the vine. They can be renovated—top-dressed or some of the soil taken from the front and replaced with new, but only on rare occasions is the whole border renewed and the old vines replanted. When the condition of the border is such that it has to be renewed entirely young canes are generally planted. In the early days of growing grapes under glass when gardening in general was not conducted on the scientific lines it is today it was not considered necessary to have the roots under absolute control, and no effort was made to restrict them from extending outside of the house and in some cases I believe one could say outside of the garden if they chose to roam so far. Later years saw borders (as we term them) being made with food or fertilizers placed within easy reach of the vine roots. We read of the carcasses of animals being buried outside the vineries to act as fertilizers. This was only coming into line to what is being done today only in a more scientific and practical way. The present era has taught us the many advantages of having all roots under absolute control and also of having them growing in the smallest possible amount of soil. The advantages derived from having them in the minimum of soil are—they will dry out much quicker in the dull weather, which helps to keep the soil sweeter and the roots are closely confined so that whatever food or stimulants are given only a small area has to be covered. Some growers, particularly in England, still prefer a border that is partly inside and partly outside, which suits some varieties better than the border that is inside altogether. These outside borders have to be protected over there during the winter months consequently are not to be recommended for our severer climate, especially for early work as the soil has not got a chance to warm up. Decided then that the border shall be inside entirely and that the roots shall be confined to that space the first thing in the construction of a new border is to see that the roots cannot get outside. If a new vinery is to be built provision can be made for this at the time the foundations are being got out. The outside walls must go down below what is to be bottom of the border; this (bottom) should be made after the style of a cellar floor, made of concrete nicely smoothed off, having a fall to a drain which should be in the center of the house unless it is large enough to make two drains necessary.

The next consideration is the drainage of the soil after it is put in. Broken and otherwise unfit for use bricks can be obtained from any brickyard at a small cost and they make the best drainage that can be put under a vine border. Throw these in roughly,—I say roughly because some have the idea they can be placed in better, but no matter how much time is spent on placing them they will never answer the purpose so well as when they are thrown in roughly. Let this "drainage" be at least ten inches at the highest points of the floor and keep it level from this which will make it necessary to add several more inches in the vicinity of the drain, according to what fall has been given the floor. An additional help to good drainage will be a few lines of drain pipes run through the bricks leading to the drain. One thing must be noticed when putting the drainage in—that is, if the wheelbarrows are allowed to dump in the same place all the time a quantity of fine stuff will accumulate there. The best way is to dump the broken bricks in and throw them into position sweeping the floor clean as new space is covered. It is best to drain the whole border at the start as it can be made in one job but it will not be necessary to make up the whole border at the start. Four feet will be sufficient. Have this partitioned off either with wood or a temporary brick wall. Place a green sod, grass side down, over the portion that is to receive the soil. This will keep the soil from working down into the drainage for some time. Now to the soil. Supposing this has been stacked in sod form, chop it down roughly. Soils differ so much that it is impossible to put any stated quantities of either bones or charcoal into so much loam. Heavy loam, again, will sometimes be benefited by the addition of broken bricks, about the size of a hen's egg, to keep it open. The charcoal can be left much larger than this. It will be best to have bones in two sizes, half-inch stuff and inch-and-a-half size. This makes the composition lasting. Have the heap thoroughly mixed and as the soil is being placed in the border have it kept level, otherwise if a heap is allowed in one place all the rough stuff will keep falling to the bottom and where two heaps join there will be a streak of rough stuff down through the border which will cause it to dry out irregularly. Let the soil be made firm as it is added and do not attempt to work it when wet. No border should be more than three feet in depth of soil.

Christmas Melons

Let the Christmas crop have all the feeding it will take and plenty of sunheat. Keep the night temperature up to the required figure. This will mean plenty of fire heat at times. Be ready to fight away spider on its first appearance. Mildew, too, will be troublesome if the ventilating is not done with judgment. Top growth will be none too vigorous just now and what is made can be left on to promote more root action.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Disbudding

Never neglect to go all over the plants at least twice a week and see that they are properly disbudded. There is considerable loss of strength and energy where plants are allowed to go undisbudded for a time, and that will mean smaller buds and the reducing of their quality. It is best to set aside certain days for this work,—say every Tuesday and Friday. If this is attended to on these days regularly, then there will never be any neglect. Collect all the buds that are cut off and put them away in the garbage can and not along the edge of the benches every here and there as is the custom with many growers. If that is done there will be no place for bugs to hide and breed. Anything that is green and has no poison on it makes excellent food for the various insects that infest the rose benches.

Syringing

With the darker days already here there will be more danger in syringing the plants, and growers who have kept their stock nice and clean from the very start will now have something to be proud of and very thankful for. There is something in knowing when a dark week comes that your plants are not likely to be eaten up by red spider just because you cannot syringe. When clear weather arrives, syringe as clearly in the morning as the temperature in the houses will warrant, this being usually around nine o'clock. As has been stated in these columns before, try to syringe so as to throw the water into the walks as much as possible, for this has an advantage in more ways than one. Not only will it keep all the surplus water off the bench, but it will also keep what spider has been taken off from getting back on the benches. It will also knock all or rather most of the yellow leaves into the walks where they can be easily swept up with the broom instead of having to be picked by hand from the benches.

Shaking the Plants

After a good syringing the plants should be well shook to take off all the water that will drop and thus help to dry them. A stick with a groove in it that will take hold of the wires will be all that is necessary in the line of tools. Plants that are on stakes can be tapped lightly with the stick, to take off the water that is hanging to the leaves. This should be done as soon as the house is syringed, for the noon sun will then have a chance to take away the balance of the moisture.

Ordering the New Pots

As the potting season will soon be here there is nothing better than going over your supply of pots to see just what will be needed in this line. Then with the figures all down it is easy to order the necessary number, and the right sizes. Better get them in early and you will be sure of having them on time.

Liming the Benches

Benches that have received a coat of lime earlier in the season will now need another as likely as not, and little harm will result if it is applied a little too soon. The plants will take it as they need it and there is little danger of their getting too much of it. We like to apply the lime to the benches and then leave it for a little while—say three or four days—if the plants do not have to be watered in that time. The lime will then cake a little, and remain on the benches for a long time and the plants will take what they want of it, for with each watering a little of it will be dissolved. Do not neglect to loosen up all the flat thin cakes that form over the surface of the soil, for these will not let water through, and will also exclude air to a considerable extent. Scratch these over very lightly so as not to disturb the roots and then let them stay. Needless to say the lime should be air-slacked and if it is freshly slacked in the cellar with the aid of a sprinkling pot, run it through a fine screen. Not a very pleasant job, I am sure, having done it many a time, but it is best for the welfare of the plants.

Supply of Bonemeal

Like pots, bonemeal is very essential to the growing of young plants and growers should see that there is enough of it on hand to mix into the soil at potting time. It should be as fine as it is possible to get it, and should be thoroughly mixed into the soil when it is used.

Stock Houses

As soon as you decide which houses are to be taken out to make room for the young stock, begin cutting the buds right down to the hard wood without leaving any eyes, and getting just as much stem as is possible. Two eyes left on the plants are not very much, but it is enough to make a No. 1 out of a No. 2, etc., so there will be a little gain by cutting the blooms away down. This of course would not do where the house will continue to grow on for there would soon be no wood from which to cut.

NEXT ISSUE

SPECIAL HOLIDAY NUMBER

ALWAYS A WINNER FOR WIDE AWAKE ADVERTISERS

Copy for Advertisement must reach this office not later than Tuesday, December 9. EARLIER IF POSSIBLE.

HORTICULTURE

VOL. XVIII DECEMBER 6, 1913 NO. 23

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.
Telephone, Oxford 292.
WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:
One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:
Per inch, 30 inches to page..... $1.00
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—New Carnation Matchless.
NOTES ON CULTURE OF FLORISTS' STOCK—Christmas Azaleas—Lilies for Christmas—Manure for Florists' Crops—Propagating Carnations—Soils for Winter—Start Freesias for Easter—*John J. M. Farrell* 765
FRUIT AND VEGETABLES UNDER GLASS—Making a Vine Border—Christmas Melons—*George H. Penson* 766
ROSE GROWING UNDER GLASS—Disbudding—Syringing—Shaking the Plants—Ordering the New Pots—Liming the Benches—Supply of Bonemeal Stock Houses—*Arthur C. Ruzicka*..... 767
GRAFTING LILACS—*C. S. Harrison*..... 769
IDEAL GARDENERS—*M. C. Ebel*..... 769
A SUPERB NEW BEGONIA, Illustrated..... 770
PRINCE E. C. DE ARENBERG, Illustrated..... 770
NEW WHITE CARNATION MATCHLESS..... 770
CLUBS AND SOCIETIES—Lancaster County Florists' Club—Connecticut Horticultural Society—Society of American Florists—Ladies Society of American Florists—New Jersey Floricultural Society—Gardeners' and Florists' Club of Boston—Florists' Club of Philadelphia—Chrysanthemum Society of America—The "International" 772
Club and Society Notes 773
OLD PLANTS UNDER NEW NAMES..... 773
OF INTEREST TO RETAIL FLORISTS:
New Flower Stores—Steamer Departures..... 780
Flowers by Telegraph..... 781
FLOWER MARKET REPORTS:
Boston, Buffalo, Chicago, New York..... 785
Philadelphia, St. Louis, Washington..... 787
OBITUARY—Thomas Jardine—Edward Upton—Herbert C. Thomas—William C. Crawford.....794
MISCELLANEOUS:
Gardeners and Lockjaw, *E. O. Orpet*..... 776
A Reply to R. T. McGorum—*Edwin Jenkins*..... 776
Maryland Week, Illustrated 778
Seed Trade Notes..... 778
New Corporations 778
News Notes 778-780
Business Troubles 780
Philadelphia Notes 781
Chicago Notes 782
Washington Notes 783
Personal 787 792
Harry A. Bunyard—portrait..... 792
Greenhouses Building or Contemplated..... 794
The Meaning of an Inch of Rain..... 794

Exit the chrysanthemum

As the chrysanthemum season nears its close the wholesale flower markets are gradually emerging from the helpless and hopeless condition of congestion which has prevailed for several weeks past and a healthy tone is noticed throughout. This is not to be attributed to the departure of the "autumn queen" exclusively for there are other factors which exercise a more or less potent influence but the dealers are disposed to lay most of the blame for the demoralization of the fall trade to the intrusion of the chrysanthemum and they are probably justified in this. We hope to see a steady continuance of the improvement which appears to be quite general all over the country and which is so essential to the growth and prosperity of the florist business and allied interests.

Distribution of producers

As in every recurring period of accumulation for many years back we have again heard much this fall about alleged overproduction of cut flowers and the disposition of the "surplus." Our contention is, as heretofore, that there is no real overproduction and will not be for a long time to come. The trouble is due rather to inadequacy of means for distribution and the [illegible] to channels that are too narrow. From such a view point the close concentration of growing establishments around certain large cities is unfortunate. The reshipping of such perishable goods to any great distance is hampered by many drawbacks, well-known to all who have had experience either as shippers or receivers. The grower who locates his establishment at some central point where access is had to several centres of consumption has decidedly the best of the situation for with intelligent management he can to a considerable extent so control the distribution of his product as to minimize the demoralization and losses which invariably attend the overloading of any one market.

Undeveloped resources

Did you ever stop to consider what would be the added income to the florist trade of this country as a whole if all the commercially grown cut flowers which go to loss had been sold even at one-quarter of minimum market rates? One of our diplomatic representatives has said that the greatest undeveloped resource of any community is the people. The same may be said specifically as regards the flower business. All the flowers produced for commercial purposes are but a small fraction of what this great "undeveloped resource" would consume if more even distribution in fresh condition and at fairly stable prices could be brought about. It is not to be expected that the frequent gorging of the wholesale markets with material, due to weather or other causes, for which the dump wagon or an unloading at demoralizing prices are the only present alternatives, can ever be entirely eliminated but we believe that the chaotic conditions thus produced might be materially modified and methods of merchandizing brought under better control through more systematic planning and co-ordination of effort. It is superfluous to say that any policy which will increase the number of flower buyers and at the same time get the goods before them in attractive form and at dependable prices must result in great direct benefit to all concerned—not only to the grower, wholesaler and retailer, but to the greenhouse builder and a long list of other industries all more or less dependent upon the healthy growth of the flower business. Real co-operation between these interests for the express purpose of business development and improvement has never been seriously tried. Yet there are many men of ability, experience and high ideals in every branch and the unused potentiality in this other "undeveloped resource" is a force that is tremendous in its possibilities.

GRAFTING LILACS

In the issue of Nov. 1st reference was made to grafting and budding on the privet. This is a very poor stock, and in the Northern States it is worthless. We have had much experience in grafting. The root of the vulgaris takes well. It is not generally known that there are two distinct systems of roots on the common lilac. There are the laterals that sprout like the mischief and spread much like the Canada thistle. Then there are the tap roots which cannot sprout. The laterals are soft and quite pithy. Other kinds grafted on these take well. But you must use great caution or you will have a bad mix-up, for they are bound to sprout. You can graft the white varieties well enough, because you can see from the white color of the bud which is which. I have often grafted the Japan and Chinese tree lilacs on these laterals. They will push out their own roots in two years. Then take them up and cut off all the vulgaris roots and replant and you have them on their own roots. The tap roots have but little pith, and they are much harder than the laterals. Use these for grafting and you are safe, for they cannot sprout.

There are three kinds of the Rouen lilac—the red, the deep red and the pinkish white. These last are a little tricky. Some years they will bloom pink, and I have seen three twigs on one limb, and two of them had white flowers and one had pink ones. The roots of the Rouen do not sprout and you can readily graft any of the numerous vulgaris family on them. They are hardy and you will have no trouble with their winter killing. You can also graft the Rouen on the vulgaris roots, either the tap roots or laterals.

For years we have used the western green ash for grafting. Take one-year-old roots that are full of life and sap and graft them just as nurserymen do their apples on one-year apple roots. Use the lip grafting method. They are not always certain, but if you graft late, just as the buds begin to swell and use care to have scion and stock match and then wax the joint, you are pretty sure of success. As soon as grafted they should be packed in moist sand till planted, which should be done as soon as the ground settles.

The biggest thing in recent years I think is the Chinese tree lilac. This is a summer bloomer—always escaping the frost. It grows much faster than the Japanese. It is covered with a great mantle of snowy white blooms that are very fragrant. I think we were the first to introduce them in the West. Fifteen years ago we sent one to the publishers of The Fruit Grower, St. Joseph, Mo., and he reports it eleven inches through, and 25 feet tall. Across the way there are some of the same all growing in grass that are 7 inches through and 20 feet tall. These trees are destined to be a foot through and 50 feet high and for individual trees on the lawn or for avenues they are without a rival. They endure the heat much better than the Japs, for these had their leaves badly sunscorched in August, while the Chinese were fresh and green.

One of the largest firms in the West sent to me for some buds. I would not send them for there was nothing they could bud them on. Think of putting such a tree on a privet, or even a lilac bush! They are best raised on their own roots or on the green ash. We now save a bushel or two of seeds a year. They grow about a foot the first year from seeds and we have had them 3 to 4 feet in two years. They are quite slender and may need staking for a year or two. I forgot to say when you graft the vulgaris on ash roots they will throw out roots of their own in two years and will then naturally discard their stepmother roots and grow vigorously on their own. A dealer once told me he had purchased a beautiful lot of real purple tree lilacs. I told him there were no such trees. Soon after I visited the firm that furnished them and they were common lilacs budded on the privet and trained to tree form and every one had a borer in it. Borers do not molest either of the tree lilacs.

York, Neb. C. S. Harrison.

IDEAL GARDENERS.

Editor HORTICULTURE:

The contribution to HORTICULTURE by George F. Stewart, headed "Original Gardeners" bears earmarks which lead me to infer that the author had in mind some recently published remarks attributed to me, when he wrote the article referred to.

Surely to argue for the betterment or higher attainment of anything from the standpoint of idealism is not an unworthy trait. While I am not certain of a personal acquaintanceship with my critic, I have known of him through his "good works" in horticulture for several years, and notwithstanding his expressed opposition to established ideals, I am convinced that he is possessed of many cherished ideas to which he adheres steadfastly. His writing implies it.

That originality is a precious asset I quite agree. Originality and individuality go hand in hand and those blessed with these qualities have the advantage over the majority of mankind. As originality, individuality, and ideality are closely affiliated, the cultivation of ideals, to my way of reasoning, is as essential as the cultivation of flowers in order to gain perfection. Though the perfect gardener is not yet in sight, we have living examples of what he should be—but there is always something new to learn before he will reach perfection.

That it is necessary for the gardener to be "at the dirtiest end of the job on hand, to gain the confidence and goodwill of his assistants"—in this I cannot concur with Mr. Stewart, and I do not believe that he intended to have it read with that understanding; but rather that the true gardener does not regard himself beneath performing any work that he would ask an assistant to undertake for him.

I have never read Carlyle's book on clothes, so I am not familiar with it. That "fine clothes" would furnish the link necessary to create the closer relationship which should, but does not now exist, between so many gardeners and their employers was not my contention. I realize that "personal appearance" is less sustained by the wearing of good clothes than by the general bearing of their wearer. They who are the most fittingly clothed and who command the respect of all others are those possessed of sufficient strength of character to look all men squarely in the face. My allusion to "fine clothes" was simply a reference to an old gardener who would rather plod than manage, probably owing to his having faith in none but himself.

That there are many wide-awake gardeners is indicated by the more frequent appearance of discussions centering directly on the gardener, which should not be discouraged as it is a sign of progress. The discussions are primarily in the interest of the men who are striving to gain recognition, but who are handicapped by the notion that they are surrounded with unsurmountable obstacles to hinder their advance; and not for those who have made their mark; and who should participate more freely in the privilege accorded them by the horticultural press to expound their accumulated knowledge for the benefit of the younger men who have adopted gardening as their profession, and who seek every opportunity to learn from the leaders in it.

Divided opinions oftentimes bring salient facts to light and occasional spirited controversies may arouse the dormant senses of those who believe that there is no more to the profession of gardening than its mere calling.

Madison, N. J. M. C. EBEL.

A SUPERB NEW BEGONIA.



NEW LORRAINE SPORT.



OLD TYPE LORRAINE.

The difference between the new Begonia Florence Davenport and the old type of Begonia Gloire de Lorraine from which it sported at the greenhouses of A. M. Davenport, Watertown, Mass., is convincingly shown in the accompanying pictures. The photographs were taken at the same time, the plants being of the same age and grown along under identical conditions in the same house. The flowers are as large as those of Cincinnati, deeper in color than either Cincinnati or Lorraine, the leaves very thick and leathery and the habit of the plant so sturdy and short jointed that less staking is required than in any other begonia of this type.

PRINCE E. C. DE ARENBERG.

Among new rose claimants for favor the one we here illustrate has all the elements and promise of popularity. Its color is vivid crimson, pure and luminous and as to stem and foliage no rose can excel it and few can equal its broad, massive, dark green leaves. From personal experience, we know the blooms to be long-keepers retaining their purity of tone to the last. This rose, which is of European origin, is being introduced to the American trade by S. J. Reuter, Inc., and C. H. Totty, by whom it has been given a thorough and convincing test as to its growing and producing qualities. It has been well received wherever shown. John Young has the sale of the cut blooms in the New York market.



NEW RED FORCING ROSE PRINCE E. C. DE ARENBERG.

NEW WHITE CARNATION MATCHLESS.

This latest introduction by the Cottage Gardens Company is, like other varieties emanating from that concern, a superb production, the very acme of carnation improvement and eminently worthy of the position of honor we accord to it on our front cover page this week. Its excellent qualities of form and habit are well shown in the picture.

The next meeting of the New York Florist Club will take place on Monday evening, December 8. J. Austin Shaw for the essay committee promises talks by L. W. C. Tuthill on "Advertising, the Gasoline of Business"; Max Schling on "Successful Advertising" and Leonard Barron on "Advertising, Pure and Simple."

'Phone Calls
Chevlot 65-X.
" 154-X.

J. A. Peterson & Sons

WHOLESALE
PLANT GROWERS
McHenry Avenue, Westwood
CINCINNATI, O.

Specialties
New Begonia
"Glory of Cincinnati"
Begonia "Gloire de Lorraine",
Pandanus "Veitchii",
Adiantum "Farleyense",
Cyclamen gig.
Hydrangeas in Specimens.
Hydrangeas in Novelties.

Cincinnati, O., December, 1913

Christmas Plants (Wholesale only);

We have the following to offer in choice quality;

Begonia Glory of Cincinnati (never had them any better).

2 1/2	inch pots . . .	$20.00 per 100,
4	" " . . .	40.00 " 100,
5	" " .	$75.00 & 100.00 " 100,
6	" " . . .	1.00 & 1.50 each,
7	" " . . .	2.00 & 2.50 each,

Cyclamen giganteum, in dark red, deep rose, pink, salmon, white, and white with pink eye;—

5	inch pots . . .	$ .50 and $ .75 each,
6	" " . . .	1.00 " 1.50 "
7	" " . . .	2.00 " 2.50 "

Large flowers and best strain on the market; quality finer than ever.

Pandanus Veitchii, well colored, $1.00 and $1.50 each.
Dracaena Massangeana, $1.00, $1.50 and $2.00.
Dracaena Victoria, fine specimens only, $8.00, $10.00, $15.00 to $25.00 each.

Dracaena Sanderii, 15, 20, 25 cents each.
Asplenium Nidus Avis (Bird's Nest Fern) very fine plants, $1.50, $2.00 and $2.50

Cyrtomium Rochfordianum, the new Holly fern, 25 to 50 cents each.
Adiantum Farleyense, 15, 20, 25 cents each; suitable for filling baskets and jardinieres; is the most elegant of all the Maidenhair ferns.

You may depend on choice stock ready for the retail counter. Thanking you for past favors, and assuring you that we will do our best to give you entire satisfaction, we are,

Yours truly,

J. A. PETERSON & SONS.

P. S.—If you have a greenhouse, would advise to have the plants shipped early in December; otherwise we will reserve your valued order and ship as wanted.

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

November 20th, the second visiting trip was made and to the florists of the East End. The first stop was at Secretary Lemon Landis' place, where is grown everything for the retail store. At H. D. Rohrer's we saw the largest lot of Bonnaffon chrysanthemums grown in this section, and his usual good quality of carnations with his own seedling red holding up its record of last year. At Goldbach's we found a new man in charge and a decided improvement over last season. Here is an illustration of the good these trips do. It certainly acted as an impetus on the new man to have us note an improvement in the place over last season. At Siebold's we found the forty varieties of geraniums and the snapdragons working hard making cuttings for their owner. From there to Enos Kohr's was "some jump," but automobiles and street cars helped us to get there. Here through some unexplainable reason the carnations were not so good as last season. Mr. Kohr, being conservative, estimates he will get about one-third of a crop.

At the evening meeting we had Arthur Niessen of Phila. He advised us to pay more attention to the growing of flowers that keep and to be careful in packing them for shipment. He also brought many points from a business point of view and quite a lively discussion ensued. A canvass of those present by the Co-operative Buying Committee was made, and it was quite a surprise to find that in this conservative community orders have been placed for some 7,500 Matchless carnations, and almost that many Philadelphia. It is the intention next season to bulk all our orders, and there are prospects of our being able on our membership card to get a considerable reduction on all pipes and fittings from a local concern if we unite on our buying at that establishment. This will be worked out along other lines as we get experience.

A committee was appointed to arrange for a banquet in January and the meeting adjourned in peace and harmony about 9.45 P. M., to meet again December 18th.

Lancaster, Pa. A. M. HERR.

CONNECTICUT HORTICULTURAL SOCIETY.

At the meeting on Nov. 20th, President Huss gave a glowing account of the Westchester & Fairfield Horticultural Society's exhibition held at Stamford. A suggestion he made, which is well worth careful consideration by horticultural societies, was to the effect that at such shows there should be more than three judges, that is, instead of one group of three judges to have, say, three groups, making nine judges in all. This would greatly expedite the judging of all classes. It is an arduous task to select two or three prize exhibits out of eight entries when each exhibit looks like a winner, and it calls for extreme care in noting the points that count in carrying off a prize. ALFRED DIXON, Sec'y.

Wethersfield, Conn.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Alfred M. Davenport of Watertown, Mass., submits for registration, the following Begonia described below: any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary, at once. Failure to receive objections to the registration, the same will be made three weeks from this date.

Name, "Florence Davenport."

Description—A sport from the Lorraine; originated in our greenhouses three years ago; much more robust than Lorraine; foliage similar in size to Lorraine, but thicker and more leathery; very strong stems; color of flowers, darker pink than either Cincinnati or Lorraine; size of flowers fully as large as the Cincinnati.

JOHN YOUNG, Sec'y.

November 26, 1913.

LADIES' SOCIETY OF AMERICAN FLORISTS.

Mrs. C. E. Critchell, president for 1914, has made the following appointments:

Directors for two years—Mrs. W. W. Coles, Indiana; Mrs. Philip Breitmeyer, Michigan; Mrs. Aug. Poehlmann, Illinois.

Introduction Committee, 1914—Mrs. W. W. Edgar, Massachusetts chairman; Mrs. E. M. Bullock, Indiana; Mrs. Geo. W. Smith, Ohio; Mrs. Theo. Wirth, Minnesota; Mrs. W. R. Nicholson, Massachusetts.

MRS. CHAS. H. MAYNARD, Sec'y.

NEW JERSEY FLORICULTURAL SOCIETY.

At the monthly meeting of the above society held in Orange, the following officers were elected: Edwin Thomas, president; Henry Halbig, vice-president; Fritz Bergelund, treasurer; Geo. W. Strange, secretary; Chas. W. Ashmead, Geo. Wraight and John L. Collins, auditing committee. Awards were made as follows:

Roses—Wm. Reid, 90 points; A. P. Wezel, 85 points. Carnations—Wm. Reid, 85; Max Schneider, 82. Violets—Max Schneider, 75. Chrysanthemums—Max Schneider, 80. Zygopetalum Mackayii—Emil Panuska, 75. Begonia Lorraine—(Lord & Burnham prize) Wm. Reid, 85.

Non Competitive.

Tomatoes—A. P. Wezel, certificate of merit. Roses—A. P. Wezel, vote of thanks. Cypripedium insigne—Frank Drews, vote of thanks.

The list of prize winners for points in the monthly competition for the year 1913 is as follows:

Class 1. Orchids—1st, Emil Panuska, 782 points; 2. Roses—1st, Wm. Reid, 761; 2nd, A. P. Wezel, 703; 3. Carnations—1st, Max Schneider, 728; 2nd, Wm. Reid, 683. 5. Cut flowers—1st, Max Schneider, 720. 4. Foliage or Flowering Plants—1st, Emil Panuska, 337; 2nd, Frank Drews, 160. 6. Sweet peas or violets—1st, Max Schneider, 585; 2nd, Frank Drews, 105. Wm. Reid (Lord & Burnham prize), 608.

Judges—Chas. W. Ashmead, John Hoffman, James McManus.

GEO W. STRANGE, Sec'y.

So. Orange, N. J.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the regular meeting of the club on November 18, the following list of nominees for the several offices in the club for the ensuing year was made. President, W. J. Kennedy, Thomas Roland; vice-president, H. H. Bartsch; secretary, W. N. Craig; treasurer, Peter Fisher; executive committee, James Methuen, Geo. M. Anderson, Peter M. Miller, James Wheeler, W. J. Collins, W. J. Patterson, W. C. Rust, Eber Holmes, B. Hammond Tracy, F. J. Rea, W. J. Stewart. The meeting for the election of officers will take place on December 16. The landscape gardening classes meet at Horticultural Hall each Monday evening at 7 o'clock. No more students can now be taken for the present season's course.

W. N. CRAIG, Secretary.
W. J. KENNEDY, President.

FLORISTS' CLUB OF PHILADELPHIA.

The regular monthly meeting of the Club was held on the 2nd inst. Interesting exhibits of new roses and carnations with discussion on same was a feature. Louis J. Reuter of Westerly, R. I., exhibited two new roses, one a light pink sport from Maryland—a very fragrant, large flower; the other the lovely wine colored, new Prince E. C. de Arenberg. Matchless Carnation was shown in superb form by the Cottage Gardens Co., Queens, N. Y.

The subject for the January meeting is in doubt. It will either be Geraniums, by R. Vincent, Jr., or Affiliation, by Adolph Farenwald. The essay committee have the matter under consideration and will decide. Interesting addresses were made by Louis J. Reuter on new roses and by R. Vincent, Jr., on things in general.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Submitted by Elmer D. Smith & Co., Adrian, Mich., at Cincinnati, Nov. 22nd; variety, Queen, color white; single, com. scale 91 points. Variety, Azelda, color pink, anemone pompon, com. scale 82 points.

Submitted by Ed. H. Freis, Fort Thomas, Ky., at Cincinnati, Nov. 22nd, variety, Martha, color white, Inc. Jap., com. scale 88 points.

CHAS. W. JOHNSON, Sec'y.

THE "INTERNATIONAL."

The Flower Show Committee for the "International" at New York next spring held a well attended meeting last Monday at the Grand Central Palace. The prospects certainly appear rosy in the extreme. It looks as if the retailers would support this exhibition, many having already engaged space. The plan to do away with prizes in this department seems to meet with their approval. They will take space and make displays to suit themselves, changing same as often as they see fit.

OLD PLANTS ADVERTISED UNDER NEW NAMES.

There has recently been a considerable amount of advertising, by the press and otherwise, of two beans for which highly extravagant claims are made, and for the seed of which exorbitant prices are being asked. One of these is being advertised under the name of the Shahon pea, with the absurd claim that on three and one-half acres this plant produced seventy tons of hay and three hundred and fifty bushels of seed.

The Shahon pea is nothing more or less than the plant properly known as the Asparagus bean, or Yard-long bean. It is a close relative of the cowpea—in fact, by most botanists considered a mere variety. In experimental tests with upwards of twenty varieties of Asparagus bean, this Department reached the conclusion that none of them could possibly compete with the better varieties of cowpeas as a forage crop. The stems, as a rule, are much more slender and vining, and the long pods, which lie on the ground, can not be harvested by machinery. None of these twenty varieties is as productive, either in herbage or in pods, as the better varieties of cowpeas.

The Asparagus bean derives its name from the fact that the young green pods, when used as a vegetable, have somewhat the flavor of asparagus. As a vegetable, the Asparagus bean may come into somewhat more general use than it has in the past, but as a forage crop it has but little merit. Seed of the Shahon pea, which apparently is the commonest variety of Asparagus bean—namely, that having pinkish-buff seeds—is offered by the advertisers at $5.00 a pound. The same variety is offered by seedsmen in France, where the bean is more or less commonly grown, for 25c. a pound.

Another plant which has been thoroughly tested, both by the Department and the Experiment Stations—namely, the Jack bean—is also being extravagantly advertised under the name of the Giant Stock Pod Bean, or the Wataka bean, the seed being quoted at $15.00 per bushel. This bean has been fully treated of in Bureau of Plant Industry Circular No. 110, which can be obtained from the Department free upon request. While the Jack bean produces an enormous amount of beans per acre, they are not relished by stock, and no satisfactory means of utilizing them has yet been discovered.

CLUB AND SOCIETY NOTES.

The St. Louis Florist Club will hold its regular meeting on Thursday, Dec. 11. The Ladies' Florists' Home Circle will meet at the home of Mrs. Geo. B. Windler, Wednesday, Dec. 10th.

The Horticultural Club of Boston had as its guests at the December meeting Mr. Vandermey of Lisse, Holland, and Robert Shoch, of M. Rice Company, Philadelphia. The dining room was adorned with large vases of a new unnamed rose from Alexander Montgomery and new carnation Alice from Peter Fisher. Mr. Montgomery's rose is a soft La France pink with petals beautifully recurving. It is a sport from a seedling.

President Farquhar who has just returned from a short European trip gave some interesting notes on the cultivation of lily of the valley pips abroad for export. Mr. Vandermey talked very interestingly on some phases of the culture and handling of Holland tulips, narcissi, etc.

TWO CATCH CROPS

BABY GLADIOLI and FREESIAS

Planted where the Carnations "missed," or along the edges of the benches, they will come in just when you need them most, and a "friend in need is a friend indeed." We offer ourselves as follows, less 5% if cash accompanies the order.

GLADIOLUS, Colvillei and Nanus (Type)

	100	1000
ACKERMANII. Salmon-orange, with white blotches, edged scarlet; very pretty	$0.85	$7.50
BLUSHING BRIDE. Flowers are large, pure white, with delicate pink spot: useful for early forcing	.75	5.00
DELICATISSIMA SUPERBA. Pure white, bright large carmine blotch	1.50	12.00
FAIRY QUEEN. Carmine red, white blotch	.75	6.00
FIRE KING. Orange-scarlet; purple blotch, purple-bordered	1.75	16.75
PEACH BLOSSOM. The most beautiful of all the Colvillei type of Gladiolus; the color is a lovely, soft pink, on the order of the Killarney Rose	.85	7.50
PINK PERFECTION. A fine rose variety	.75	6.50
QUEEN WILHELMINA. Blush-white, with conspicuous blotches of cream, with scarlet margin	2.25	20.00
SAPPHO. Large white, shaded pale lilac, with faint, creamy blotches, edged violet	.85	7.50
THE BRIDE (Colvillei alba). (True.) This lovely white miniature Gladiolus makes a useful cut flower for early spring use; will stand forcing	.75	6.00

FREESIA REFRACTA ALBA—"Quality Brands"

FRENCH-GROWN

Bulbs, ⅜ to ½ inch in diameter	$0.75	$6.00
Mammoth bulbs, ½ to ¾ inch in diameter	1.00	7.50
Monster bulbs, ¾ inch and up in diameter	1.25	10.00

FREESIA PURITY

Flowers are snowy white, of large size, and borne in great profusion on long stems. First size, $1.75 per 100; $15.00 per 1000.

ARTHUR T. BODDINGTON, SEEDSMAN, 342 W. 14th Street NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

SPHAGNUM MOSS
10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale .....$3.80 25 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots.. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. each.
J. H. SPRAGUE, Barnegat, N.J.

ORCHIDS
600 PLANTS
Flowering Cattleya Labiata
in Sheath for November and December. Ready to ship now. In or out of pots. Also orders taken for fresh imported stock to arrive early 1914.
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.
G. L. FREEMAN, Mgr.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Alban s, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS
We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL, Summit N. J.,

SPHAGNUM MOSS
We guarantee fresh and clean, 10 bbl bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.
1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00
Car lots. Write for Prices.
INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

HOLIDAY BLOOMING AND DECORATIVE PLANTS

Finest Line ever offered to the trade. Our CYCLAMEN, AZALEAS, BEGONIAS, POINSETTIAS, PRIMULAS and other blooming and decorative plants are grown to perfection, and are very cheap at the prices quoted here considering the exceptionally high quality. You would do well to order your Christmas supply from us now. We will gladly set them aside for you and deliver at any time you may designate. It is very important that you make up your order today and let us have it as early as possible. DO IT NOW.

AZALEAS

10,000 all sizes, from 75c. to $4.00, specimens from $5.00 to $10.00. A limited number of plants in bloom ready for immediate use.

BEGONIAS

Lorraine, 6 in. pots, in full bloom, 75c. to $1.50; 7 in. pots, in full bloom, $2.00.

Cincinnati, 5 in. pots, 50c. to 75c. each; 6 in. pots, 75c. to $1.50 each. These are especially good plants, in full bloom.

CYCLAMENS

Christmas colors, good values, 4 to 7 in., 25c. to $1.50 each.

CROTONS

In variety, strong 4 in., $6.00 per doz.; 3 in., $3.00.

PALMS

We carry a full line of all the popular sizes. The stock is strong, clean and vigorous.

PRIMULA OBCONICA

Light and dark shades, strong, 5 in., $2.50 per dozen.

ARAUCARIAS

Excelsa, 75c. to $1.50 each; **Glauca,** $1.00 to $2.00 each; and **Compacta,** $1.00 to $2.50 each.

FERNS

Boston, Roosevelt and **Whitmani,** 5 in., 25c.; $3.00 doz.; 6 in., 50c.; $6.00 doz.; 7 in., 75c.; $9.00 doz.; 8 in., $1.00; $12.00 doz.; 10 in., $2.50 each; 12 in., $3.50 each.

TABLE FERNS

All the popular varieties, $3.50 per 100; $30.00 per 1000.

DRACAENA TERMINALIS

Highly colored, 3 in., $2.00 per doz.; 4 in., $2.50 per doz.; 5 in., $5.00 per doz.

Berried Plants

AUCUBAS

Extra full of berries, values from $1.00 to $3.50.

JERUSALEM CHERRIES

Large plants, full of fruit, 4 in., $1.50 per doz.; 5 and 6 in., $3.00 per doz.

PEPPERS

Cluster and Celestial, 4 in., well berried, $1.50 per doz.; $10.00 per 100; 2½ in. fruit for filling baskets, $5.00 per 100.

SCOTCH HEATHER

5 in., $1.00 each; 6 in., $1.25.

POINSETTIAS

In pans, a fine lot, from 50c. to $3.00 each.

COCOS WEDDELIANA

3 in., $15.00 per 100.

DRACAENA MASSANGEANA

Strong, 6 in., $1.25 to $1.50 each.

ASPIDISTRA

Green and variegated, about 10 to 15 leaves to a plant. Variegated, 15c. per leaf; Green, 10c. per leaf.

FICUS ELASTICA

Strong, 6 in., 75c. to $1.00 each; 5 in., 50c. each.

CYPERUS ALTERNIFOLIUS

Umbrella Plant, 4 in., per 100, $8.00.

ASPARAGUS PLUMOSUS

2¼ in., per 100, $3.50; per 1000, $30.00; 3 in., per 100, $6.00; per 1000, $55.00.

ASPARAGUS SPRENGERI

2½ in., per 100, $3.00; per 1000, $25.00; 3 in., per 100, $5.00; per 1000, $45.00.

Send All Plant Orders Direct to

POEHLMANN BROTHERS CO.

Plant Department, MORTON GROVE, ILL.

They ALL Read It
They Read It ALL

and

THAT'S WHY

you shoud Advertise in This Paper. If you have anything to sell to the Florist, Seed and Nursery trade of America

DON'T FORGET

The Special Holiday Number which comes out Next Week.

Advertising Copy must reach us by Wednesday

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI
AND
BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

ERNEST OECHSLIN
Gale Ave. and Madison St.
RIVER FOREST, - ILL.

PLANTS for CHRISTMAS

FERNS, Assorted, 8 to 10 kinds, $4.00 per 100.
ASPLENIUM Nidus Avis (Bird's Nest Fern), 2-in. pots, $25.00 per 100.
CIBOTIUM Schiedei, 6-in. pots, $1.50 each.
BOSTON and ROOSEVELT FERNS, 50 cents to $5.00 each.
BEGONIA Lorraine and Cincinnati, 50 cents to $2.50 each.
POINSETTIAS, 4-inch pots, 25 cents each.
POINSETTIAS, 5-inch pots, 50 cents each.
POINSETTIAS, 9 and 10 inch pans, $2.50 and $3.00 each.
CYCLAMEN, 50 cents to $2.50 each.
PRIMULA Chinensis and Obconica. In bloom, $25.00 per 100.
AZALEAS. All kinds and sizes.
ARAUCARIAS. From 50 cents to $6.00 each.
DRACAENA Terminalis. 50 cents and 75 cents each.

A. M. DAVENPORT
WATERTOWN, MASS.

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

ARAUCARIA EXCELSA

5 in., 5½ in. and 6 in. pots, 3, 4, 5, 6 tiers, from 12 to 30 inches high, 40c., 50c., 60c., 75c., $1.00, $1.25 each and up to $1.50.

Godfrey Aschmann
Wholesale Grower and Importer
1012 W. Ontario St., PHILADELPHIA, PA.

When writing to advertisers kindly mention HORTICULTURE.

For Those Who Want Only the Best Cannas

THERE is always a best in everything. It is a conspicuous fact that the best things in any line are those things to which an individual or a concern gives its best efforts. Nineteen years of Antoine Wintzer's life have gone into C. & J. Swastika Brand Cannas. We have backed him up with our entire confidence and unrestricted expenditures.

As a result, we have more than doubled the size of flowers; trebled the range of colors; lengthened bloom endurance; turned green foliage into bronze; won Europe's recognition by sweeping the prizes; secured the majority of American awards wherever shown in competition. As a result, the Swastika Brand Cannas are used more extensively than any other in the Government grounds at Washington.

If, then, you want these Swastika Cannas, **grown with care for people who care**, send for our price list and get your order in early. Several of the varieties are bound to be in great demand.



Rosea Gigantea. Flowers a soft rose to carmine pink, of giant size. Received award of merit from Royal Horticultural Society of England.

Shipments made at your pleasure. 10 for $1.50, 100 for $8.00, 1,000 for $75.00.

THE CONARD & JONES CO.

Swastika Brand Cannas
WEST GROVE, PENN.

PRINCE E. C. de ARENBERG

A red rose which will make good. We have tested it thoroughly and will stand back of it. ***Delivery Early Spring 1914.***

Large well formed buds which develop perfectly. No flat buds. Lively pleasing red without the objectionable blue shade.

A free heavy grower with ideal stem and foliage and one which will grow for any one.

It has been hailed by rose growers, who have seen it, as *the best red rose in sight.*

Grafted or Own Root, $0.75 each, $7.50 per doz., $12.50 for 25, $30.00 per 100. $250.00 per 1000.

S. J. REUTER & SON, Inc. WESTERLY R. I.

CYCLAMENS: BLOOMING as well as SEEDLING

From 4 in., 5 in., 6 in., 7 in. and 8 in., at from 15c. to $1.50 each. Fine grown stock in all colors. August-sown Seedlings—200,000 of them—of our own grown seeds; not comparable with any old seed grown.

IT IS THE ACME OF PERFECTION

what we select for seed-bearers and that is the reason we send them from Ocean to Ocean. Try them and be convinced. $2.00 per 100; $20.00 per 1000. Once transplanted: $3.50 per 100; $30.00 per 1000.

C. WINTERICH, Cyclamen Specialist DEFIANCE, O.

KILLARNEY BRILLIANT
THE Great Forcing ROSE
ROBERT SCOTT & SONS, Sharon Hill, Pa.

Very Large Evergreen and Deciduous Trees
LARGE PRIVET
The F. E. CONINE NURSERY CO.
STRATFORD, CONN.

GARDENERS AND LOCKJAW (TETANUS).

It would seem that, periodically, we are subject to the above scare. Though usually it comes from some of the medical profession, this time it appears from one of our own number. There would not perhaps be occasion to make comment, except for the wrong premises taken by Mr. Jenkins in stating that James Brydon died from this infection. He died of a very different disease.

During the 36 years of travel among gardens and gardeners, the writer has never known of one of our number being infected by the Tetanus bacilli, though theoretically we are supposed to be particularly liable, having our hands in contact with the soil most of the time, frequently with scratches to boot. Cheer up, brethren, we don't die of lockjaw, even if the insurance companies do consider us a bad risk.

E. O. ORPET.

A. Reply to R. T. McGorum.

Mr. McGorum takes exception to some of my remarks in the November 22nd issue of HORTICULTURE on the above topic. He seems to think I am landing a sly, underhanded blow at the rose-growing industry. Nothing of the kind was in my mind when I wrote the article on "Tetanus," and I merely mentioned the rose thorn as one of the possible means of affording by its scratches an entrance for the germ or bacilli and I still adhere to that view, though we are all aware there is no cause for the shakes or panic as the chances are remote owing to the fortunate fact of our general powers of resistance. Still, the possibility of infection is an ever-present one, and while the precautionary measures are so simple it is only good common sense to observe them. That in spite of all the chances he has run, Mr. McGorum "has not died yet," we are well aware and we trust he will be spared to run lots more chances. If my article conveyed the impression that James Brydon died from the prick of a rose thorn, I am very sorry as I knew full well the particulars of his unfortunate death.

EDWIN JENKINS.

CHRYSANTHEMUMS
STOCK PLANTS

Pacific Supreme
Alice Byron
Virginia Poehlmann
Golden Glow
Major Bonnaffon

$2.00 per 100—$18.00 per 1000

SHEPARD'S GARDEN CARNATION CO.
292 Fairmount St., Lowell, Mass.

FORCING SHRUBS AND PLANTS

Azalea indica. in variety
Azalea mollis in variety
Lilacs Roses

SHRUBS In Variety

Spiræas Helleborus
Lily-of-the-Valley

R. & J. Farquhar & Co.
BOSTON, MASS.



Flowering, Decorative and Vegetable Plants
In abundance at all times
Correspondence Solicited
ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

FLOWERING PLANTS

Hydrangea Avalanche—4 to 8 branches, 6½ to 7 in. pots, 35c. and 50c. each.
Deutzia gracilis 6½ in. pots, 15 to 20 branches, home grown, excellent stock, far superior to foreign grown, 20c. each.
Marguerites 6 in. pots, very bushy, will make fine plants for Easter, 25c. each.
Have a small surplus of the above stock which was grown for our Easter trade and is all first-class.
Primula Obconica—Finest mixed: 2¼ in. pots, $3.00 per 100; 3 in. pots, $5.00 per 100, ready for 4½ and 5 in. pots.

A. L. MILLER
Jamaica Ave., opposite Schenck Ave., BROOKLYN, N. Y.

GERANIUMS TO MAKE ROOM

S. A. NUTT, 2½ in., $15.00 per 1000. In fine condition.
POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.
ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.
FUCHSIAS, 2¼ in., $2.00 per 100.
DRACAENAS, 3 in., $4.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave., Schenectady, N. Y.
Mention HORTICULTURE when writing

HOLLAND NURSERIES
BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.
P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

"Get them at Dreer's"

VARIEGATED FUNKIAS

Funkia Undulata Media Picta

This splendid variegated form, besides being a most valuable hardy border plant, is becoming more popular every year as a spring pot plant. Now is the time to secure your supplies as we have an immense stock of strong plants, suitable for potting, which we offer at $6.00, $8.00, and $10.00 per 100, according to size.

In varieties suitable for the hardy border, we offer:

	Per Doz.	Per 100
ALBO MARGINATA. Pretty green foliage, margined with white, flowers lilac	$1.50	$10.00
COERULEA. Blue, broad green leaves	.85	6.00
FORTUNEI. Large, glaucous-green foliage, flowers mauve	2.00	15.00
MINOR ALBA. A pretty miniture-growing variety with rather large white flowers.	1.50	10.00
LANCEOLATA. Valuable by reason of its late-flowering, lilac flowers	.85	6.00
ROBUSTA ELEGANS VARIEGATA. The most robust of all the variegated-leaved varieties; foliage large, green, with pretty, white variegations	1.00	8.00
SIEBOLDIANA. Large glaucous foliage; flowers white tinged with lilac	1.25	10.00
SUBCORDATA GRANDIFLORA. Very large and showy; pure white, lily-shaped, fragrant flowers in August	1.25	10.00

HENRY A. DREER, Inc.

714 Chestnut Street, Philadelphia, Pa.

The above prices are intended for the trade only

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL

FROM THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention. Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

MARYLAND WEEK.



Bolgiano's Display at Maryland Horticultural Society Exhibition.

The Maryland State Horticultural Society's exhibition in Baltimore was a pronounced success in every respect. Not only were the exhibits more numerous and of higher quality, but the general arrangements for displaying them were better and real artistic harmony was a distinctive feature. The centre of the mammoth armory floor space was occupied with products shown mainly by members of the Baltimore Gardeners' and Florists' Club and a few private places. The chrysanthemums were probably the best ever shown by the local florists. Cut flowers, roses, etc., were magnificent, R. Vincent & Sons Co. had fine pyramids of hardy pompon chrysanthemums effectively arranged for color contrast. E. A. Seidewitz showed a number of handsome window and flower-box groups and plants. I. H. Moss had grand lot of dwarf conifers nicely grouped. Robert L. Graham some handsome designs. Among others who had grand chrysanthemums, cut flowers and rare foliage plants were George Morrison, Mrs. W. F. Cochran, Jr., Chas. Sweigert, Lehr Bros., Stevenson Bros., James Hamilton, I. H. Moss, P. B. Welsh, G. W. Lotz, John Cook, H. J. Quick and Edw. Kress. The arrangement of the floral and plant section was the most effective ever seen in the big armory and reflected great credit on the committee having it in charge.

Apples from all sections of the state, showing wonderful size, coloring and freedom from imperfections, such as timely and proper spraying produces, plainly indicated that this fruit is making a most surprising headway in Maryland. Vegetables from many counties of the state were also for excellence and variety another great surprise. Granges and Farmers' Clubs from several counties had booths filled with products from the farms of the members. These booths were quite a feature, and rivalry was intense, as there was a $100 prize for best booth. Some friction resulted after the judging of the booths, but was finally pacified. Potatoes proved that this crop is becoming a prominent one in the state, and the yield this season in some of the counties has been over 300 bushels per acre. Corn, as exhibited from many counties maintains the fact that Maryland is a quality-producing corn state.

The exhibit of nuts showed that increased interest is developing in nut culture. The death of Mr. Kerr at Denton, Md., a short time ago removed the pioneer of nut culture in Maryland.

The new president elected is Robert L. Graham of Baltimore, a prominent florist and a former president of the Gardeners' and Florists' Club. Prof. T. B. Symons was re-elected secretary.

SEED TRADE NOTES.

Owosso, Mich.—The Young-Randolph Seed Company opened for business at West Exchange street, December 1st.

Kansas City, Mo.—The J. G. Peppard Seed Company has increased its capital stock from $100,000 to $115,000.

Chattanooga, Tenn.—The George B. Haeger Floral Company has opened a seed salesroom in the Flatiron Building on Georgia avenue.

NEW CORPORATIONS.

Chicago, Ill.—The Chicago Growers' Co-operative Company, capital stock, $5,000. Incorporators, J. P. Smith, Peter J. Schurner and Nicholas Schmidt.

Grand Rapids, Mich.—The A. J. Brown Seed Company, capital stock, $200,000. Incorporators, Alfred J. Brown, Edwin B. Seymour and Thomas H. Brown.

Chicago, Ill.—The Foley Greenhouse Manufacturing Company, capital $45,000; to manufacture and handle material for the construction of greenhouses and other buildings; incorporators, Edward R. Litzinger, George W. McGurn, Leonard C. Reid.

NEWS NOTES.

Jackson, Miss.—Mr. and Mrs. J. V. McKay have purchased the property of the Mississippi Nursery & Floral Company, and the business will hereafter be known as the McKay Floral & Landscape Company.

Rochester, Minn.—Ross Bragg has purchased from John Peterson the East Rochester Greenhouses.

MICHELL'S SPIREA CLUMPS

	Doz.	100	1000
Astilbe Floribunda	$0.85	$ 5.50	$ 52.50
Compacta Multiflora.	.90	6.00	55.00
Philadelphia (new) 30c each	3.00	20.00	
Queen Alexandra	1.25	7.75	72.50
Gladstone	1.00	6.75	62.00
" Monster	1.75	11.00	100.00
Japonica	.65	4.75	42.50

DIELYTRA SPECTABILIS

Mammoth Roots, 90c per dozen; $6.00 per 100; $52.00 per 1000.

FORCING GLADIOLUS

Fine Plump Bulbs, Ready Now

Bride, pure white....100, 65c; 1000, $5.25

Asparagus Hatcheri Seed

NEW CROP JUST RECEIVED

100 Seeds	$1.00
500 Seeds	3.25
1000 Seeds	6.00

Special prices on larger quantities.

Send for our Wholesale Catalogue of Bulbs and Seeds, if you haven't received a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market Street, PHILADELPHIA, PA

Mention HORTICULTURE when writing

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren St., New York, N. Y.

Write for quotations

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

A useful Holiday Gift for your friend or employee. A year's subscription for

HORTICULTURE

Do It and be Happy

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

Braslan Seed Growers Company

Large wholesale growers of ONION, LETTUCE, CARROT, RADISH, PARSNIP, PARSLEY, CELERY, ENDIVE, LEEK, SALSIFY and SWEET PEAS.

SAN JOSE, CALIFORNIA

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

Jack Frost Mats

For Cold Frames

$1.40 each. Burlapped

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany) Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany) Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany) High-grade Vegetable Seeds.

H. ZYP & CO., Lisse (Holland) Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

FOTTLER FISKE RAWSON CO.,

BOSTON

LILIES

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

Lily of the Valley

(COLD STORAGE)

Burnett's Selected Dresden Brand conveniently packed in cases of 250, 500 and 1000 each.

Price on application.

BURNETT BROS., - - Seedsmen

98 Chambers St., New York

PAEONY ROOTS

Assorted in five colors, $10.00 per 100.

BLEEDING HEART ROOTS

$6.00 per 100.

EARLY WHITE ROMAN HYACINTHS

(12 to 15), $2.25 per 100, $18.00 per 1000.

FREESIA

Refracta Alba, ⅜ to ½-in., 60c. per 100, $4.00 per 1000.

SPIRAEA

Astilboides floribunda	$4.00	$35.00
Gladstone	6.00	45.00
Japonica	4.00	35.00
" compacta multiflora	5.00	40.00
Palmata	7.00	.....
Washington	5.00	40.00
Queen Alexandra	8.00	65.00

LILY OF THE VALLEY

CLUMPS AND PIPS

will arrive soon—prices on application.

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T 18) NEW YORK, N. Y.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

O. V. ZANGEN

SEEDSMAN, HOBOKEN, N. J.

Mention HORTICULTURE when writing

Plants, Bulbs & Seeds

It is our aim to please you at all times. Try us

S. S. SKIDELSKY & CO.

1218 Betz Building, Philadelphia, Pa.

Catalog for the asking

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

When writing to advertisers kindly mention HORTICULTURE.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1502
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Clinton, Iowa—Andrew Bather.

Calais, Me.—Calais Undertaking & Floral Company.

Cleveland, Ohio—Miss Katherine O'Connor, Euclid avenue.

Walkerville, Ont.—A. George Stephens, 131 Windemere road.

East Orange, N. J.—The Rosary Flower Shop, 608 Main street.

Chicago, Ill.—The Corner Florist, 29th street and Cottage Grove avenue.

STEAMER DEPARTURES

Allan.

Hesperian, Boston-Glasgow..Dec. 11

American.

St. Paul, N. Y.-Southampton.Dec. 12
St. Louis, N. Y.-Southampton.Dec. 19

Atlantic Transport.

Minneapolis, N. Y.-London....Dec. 6
Minnehaha, N. Y.-London ..Dec. 13

Cunard.

Carpathia, N. Y.-Mediter'n...Dec. 9
Ivernia, N. Y.-Liverpool. ....Dec. 10
Alaunia, Boston-Liverpool....Dec. 11
Caronia, N. Y.-Liverpool.....Dec. 13
Mauretania, N. Y.-Liverpool..Dec. 16

French.

La Savoie, N. Y.-Havre.....Dec. 10
Rochambeau, N. Y.-Havre....Dec. 13
Caroline, N. Y.-Havre.....Dec. 17
La Provence, N. Y.-Havre.....Dec. 17

Hamburg-American.

K. A. Victoria, N. Y.-Hamb'g..Dec. 9
Imperator, N. Y.-Hamburg...Dec. 15
Patricia, N. Y.-Hamburg ..Dec. 16

Holland-America.

New Amst'dam, N. Y.-R'd'm.Dec. 9
Noordam, N. Y.-Rotterdam...Dec. 16

Leyland.

Devonian, Boston-Liverpool...Dec. 20

North German Lloyd.

Fr. der Grosse, N. Y.-Br'men..Dec. 9
Pr. Fr. Wilhelm, N. Y.-B'men.Dec. 13
Kr. Wilhelm II, N. Y.-Bremen.Dec. 16

White Star.

Canopic, Boston-Mediter'n....Dec. 11
Celtic, N. Y.-Liverpool.....Dec. 11
Majestic, N. Y.-Southampton..Dec. 13
Arabic, Boston-Liverpool.....Dec. 15

NEWS NOTES.

Joseph Fuller of Leominster, has sold his retail business at 205 Main street, Fitchburg, Mass., to the Fitchburg Floral Store. Otto Mullgrav will be manager.

There is some talk of starting a "Hortus" Club in New York City, on lines similar to those on which the Horticultural Club of Boston is conducted. The basis is largely social and no intrusion on the field covered by the Florists' Club and horticultural societies is contemplated.

BUSINESS TROUBLES.

New York, N. Y.—John G. Panos, florist, 2024 Lexington avenue; liabilities, $4,927; assets, none.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Wilson
BROOKLYN
NEW YORK
3 & 5 Greene Ave.
Tel. 6800 Prospect
339-347 Greene Ave. Tel. 3908 Prospect

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflow.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
28 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St.. West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-316 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Brooklyn, N. Y.—Robert G. Wilson, Fulton St. and Greene Ave.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 912 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn. Joy Floral Co.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Medison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Providence, R. I.—Johnston Bros., 38 Dorrance St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The Californian Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

PHILADELPHIA NOTES.

William J. Baker has two stores at present—one at the old place South Penn Square, the other at 12 South Mole street. The old location will be vacated January 1st to make room for a skyscraper.

Friends of Paul Klingsporn, late with Berger Bros., will be pleased to hear that he has been appointed manager of the Chicago Growers' Co. In his new sphere we are sure he will show the same keen business acumen, initiative and magnetism as made him a noted figure in the cut flower world of Philadelphia.

Visitors: B. E. Brotherton, Detroit, Mich.; Mrs. Catherine Bretz Cumberland, Md.; Chas. Vorkeller, So Bethlehem, Pa.; M. F. Hayden, Wilmington, Del.; C. C. Morse, San Francisco, Cal.; Louis J. Reuter, Westerly, R. I.; R. Vincent, Jr., White Marsh, Md.; S. Mortensen, Southampton, Pa.; R. T. Brown, Queens, N. Y.

SPECIAL
NEXT TWO WEEKS ONLY
RED CAPES

	5 Lb. Lots	10 Lb. Lots
WHITE, per lb.,	$ .85	$ .75
COLORED, per lb.,	1.10	1.00

Orders Rushed Out on Receipt
No Need to Use High-Priced Immortelles
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
87-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

CHICAGO NOTES.

H. Wittbold has given up his store at Randolph street and Wabash ave.

B. L. Chadwick, of New York, who started his business career in Chicago, is here and enjoying a visit with old friends.

The Corner Florist is the name under which Frank F. Storck opens a retail store at 29th and Cottage Grove avenue.

The holiday decorations of the department stores are lacking much of the artistic finish usually seen, being merely a mixing of red and green.

Poehlmann Bros. will have 75,000 lily of the valley to cut for Christmas. Their cut the year round now averages between four and five thousand daily.

Edward J. Hauswirth has severed his connection with Harry Rowe and is now taking up the wholesale end of the work. R. R. Rector, formerly with H. Wittbold, is now with H. Rowe.

The Chrysanthemum shows at the park conservatories are now over and the attendance at Lincoln Park was larger than ever before—so large in fact that counting had to be given up.

Some of the stores are refusing to take orders for holly wreaths this year. One of the prettiest wreaths seen is a sample one of spruce, loosely put together and with pine cones among the green. A small cluster of red ruscus gave the needed color. It was sent from the north woods.

The large department stores are offering colored ruscus, the velvet poinsettias and all the long list of artificial flowers and prepared foliage heretofore sold by the florists and seedsmen for the holidays. They are shown in very attractive ways and at prices which mean keen competition.

The closing of the Williams Flower Shop at Wabash avenue and Monroe street again proves how difficult it is to persuade purchasers to go down stairs. It is a good location and Mrs. Williams has for many years operated successfully the Atlas, so the fault lies in the stairs and the limited display that can be seen from the street.

Several changes have taken place in the officers of the Chicago Florists' Association. E. Meuret is now president in place of John F. Kidwell, resigned; C. H. McCauley is vice-president and treasurer and P. R. Klingsporn of Philadelphia is added to the salesforce. Mr. Kidwell will devote his time to his Wentworth avenue store.

Harry Rowe's store at Washington and Wabash avenue is turning out some beautiful wreaths all ready for finishing with cut flowers. There are many beautiful kinds and the advantages to a retailer in having a really artistic wreath all made up and ready for the finishing touches of fresh flowers seems to have met with an appreciative reception.

A few cases of holly were sold out in small lots for Thanksgiving, quality fair and prices averaged five and six dollars per case. The best advices obtainable here would indicate that the supply of really good holly will be limited, the same as last year, the bulk of it coming from the south and not having the keeping qualities of the eastern holly.

Poehlmann Bros. are now bringing in their stock from Morton Grove into Chicago in their two new auto trucks, which were delivered last week. They are large dark green cars and with their gold lettering make a handsome appearance. The run is made in about one hour. Plans are now under way for building at Plant "A" in the spring where, even with the present large expense of glass, there is not room enough, the plant business having taken sixty thousand feet from the carnation sections. The 263,000 carnation plants are, with the exception of a few Rosettes, made up of the old tested varieties. Though a good crop of American Beauties is being cut, the supply falls short of being sufficient for regular demand. At Plant "B" Killarney Brilliant is being tried quite extensively and so far is proving a success. Mr. Poehlmann says he cannot see that Killarney is deteriorating in the least.

Visitors: Jas. McHutchison, New York; Miss Kaber, of The Kaber Floral Co., La Porte, Ind.; B. F. Chadwick, New York; W. J. Farney, representing M. Rice Co., Philadelphia.

READY FOR OTHERS.

HORTICULTURE,

Dear Sirs: I received one of your papers, November 15th, and like it very much. I have enclosed $1.00 subscription for the HORTICULTURE.

Yours truly,

F. B.

New Jersey.



A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

W. J. Palmer & Son

304 Main Street, Buffalo, N. Y.

Members Florists' Telegraph Asso.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

LISTEN HERE

Christmas Goods are now ripe. Get busy and pick them early. Elegant little flower receptacles of Delft Imperial Ware, Brownies, etc., Ferneries, Baskets and Vases. All New Goods. Sterling Novelties now offered for the First time. Tempting prices on our Special Gold Letters, Script and Block and Mother of Pearl.

PROGRESSIVE FLORISTS

Send for Illustrated Descriptive List of Up-to-the-Minute Imported and Domestic Goods for Fall Trade

H. BAYERSDORFER & CO., 1129 Arch St., PHILADELPHIA, PA.
THE FLORISTS' SUPPLY HOUSE OF AMERICA



Less Ice With Better Results

The McCray System of Refrigeration, which insures a perfect circulation of cool, dry air, will not only reduce your ice bills, but will keep your stock in the best condition — fresh, fragrant and attractive.

McCray Refrigerators

Are made so as to display your flowers to the best advantage. They can be lined with white enamel, opal glass, tile, mirrors or marble to suit your convenience. Write for our beautiful Free Catalog No. 73, which shows refrigerators for florists, both stock and built-to-order, in all sizes and styles.

McCray Refrigerator Co.
669 LAKE STREET KENDALLVILLE, IND.

WASHINGTON NOTES.

The Ladies Auxiliary of the Florists' Club of Washington was recently formed when a number of ladies met at the home of Mrs. George C. Shaffer and elected Mrs. George H. Cooke as president and Mrs. Elmer C. Mayberry as secretary and treasurer. This meeting was devoted mainly to discussing the need for such an organization and the election. The ladies will get together monthly and in addition many social affairs may be looked for. The organizers of the club are Mrs. Cooke, Mrs. Mayberry. Mrs. Shaffer, Mrs. Oehmler, Mrs. Stauff, Mrs. Kimmel and Miss Waters.

Fire last week threatened to destroy one of the large warehouses occupied by F. W. Bolgiano & Co., on Golden street, near Tenth street, Southeast. It is believed that the fire was set by boys, a number having been seen to leave the building carrying baskets which they had stolen and which were later recovered by the police. The damage amounted to over $500.

The Department of Agriculture announces that Cuba and Trinidad have complied with the inspection and certification requirements of that department under the Plant Quarantine Act and have been added to the list of other countries which have previously done likewise.



The Meyer Green

"SILKALINE"

IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

Apply to

Samples Sent Free

THE JOHN C. MEYER THREAD CO., LOWELL, MASS.

In Writing Advertisers Kindly Mention HORTICULTURE.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

UNITED ICE MACHINES

For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog X1.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

MOTHER OF PEARL LETTERS

THE LATEST NOVELTY

GOLD LETTERS

Send for Prices.

AMERICAN IMPORTING CO.

219 So. Dearborn Street, Chicago

When Writing to Advertisers Please Mention HORTICULTURE.

BOXWOOD

15 cents per pound

Very choice quality, no waste. Place your order now, and we will make shipment when wanted. We have some on hand now, and can make delivery on receipt of your order.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI November 24			CHICAGO December 1			BUFFALO December 1			PITTSBURG November 24		
Am. Beauty, Special	20.00	to	25.00	20.00	to	30.00	50.00	to	60.00	20.00	to	35.00
" " Fancy and Extra	15.00	to	20.00	15.00	to	20.00	30.00	to	40.00	15.00	to	20.00
" " No. 1	10.00	to	15.00	10.00	to	15.00	20.00	to	25.00	10.00	to	15.00
Killarney, Extra	4.00	to	6.00	6.00	to	8.00	8.00	to	10.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	3.00	to	6.00	3.00	to	5.00
Richmond, Hillingdon, Extra	4.00	to	6.00	6.00	to	8.00	10.00	to	12.00	8.00	to	10.00
" " Ordinary	2.00	to	4.00	3.00	to	5.00	4.00	to	6.00	4.00	to	6.00
Maryland, Ward, Taft, Sunburst Ex.	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00	8.00	to	10.00
" " " " Ordinary	.....	to	....	3.00	to	5.00	4.00	to	6.00	3.00	to	5.00
Russell, Shawyer	.....	to	.....	.....	to	.....	10.00	to	12.00	.....	to	.....
Carnations, Fancy	.....	to	2.50	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00
" Ordinary	....	to	1.50	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
Cattleyas	.....	to	50.00	60.00	to	75.00	40.00	to	50.00	60.00	to	75.00
Cypripediums	.....	to	.....	.....	to	.....	12.00	to	15.00	.....	to	.....
Lilies, Longiflorum	12.50	to	15.00	8.00	to	10.00	10.00	to	12.00	8.00	to	10.00
Callas	.....	to	.....	6.00	to	8.00	10.00	to	12.00	6.00	to	8.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	.....	to	.....	3.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Freesias	.....	to	.....	.....	to	.....	.....	to	.....	2.00	to	3.00
Chrysanthemums	12.50	to	15.00	5.00	to	20.00	6.00	to	25.00	5.00	to	20.00
Violets	.35	to	.50	.50	to	.75	.75	to	1.00	.75	to	1.00
Daises	.....	to	.....	.75	to	1.00	.75	to	1.00	.75	to	1.00
Sweet Peas	.....	to	.....	.75	to	1.00	.50	to	1.00	1.00	to	3.00
Gardenias	.....	to	.....	25.00	to	50.00	40.00	to	50.00	25.00	to	30.00
Adiantum	.....	to	1.00	1.00	to	1.25	1.00	to	1.25	1.00	to	1.25
Smilax	.....	to	12.50	12.00	to	18.00	.....	to	15.00	12.00	to	15.00
Asparagus Plumous, Strings (100)	25.00	to	40.00	40.00	to	60.00	20.00	to	50.00	40.00	to	50.00
" " & Spren. (100 bchs.)	15.00	to	25.00	25.00	to	40.00	35.00	to	50.00	25.00	to	40.00

BUY BOSTON FLOWERS

N. F. McCARTHY & CO.,

112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 86

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON The market here is sustaining itself nicely. Chrysanthemums are rapidly passing and the receipts of other staples are not heavy. Carnations are in rather light supply and bringing better prices. Roses are enjoying a good strong call, maintaining published quotations with pleasing regularity. As to Beauties, the story has been as with other roses up to present time, but there are now some evidences of cutting shipping rates on this specialty by dealers in other markets and some unsteadiness is noted as we go to press. Violets are scarce—that is, the singles. Of the doubles there are not many but they are too many at that. Cattleyas are scarce but this market does not take kindly to any serious advance in price on that account, so they stay at old figures.

BUFFALO There were four very busy days in last week and in which a good quantity of flowers was consumed, especially chrysanthemums. It almost cleaned up all the growers had. While prices were not advanced to any great extent the sales were more in quantity and prices were within the reach of every one. There was a shortage in roses also colored carnations. White carnations had no call. Beauties were scarce early in the week and the price quoted a sharp advance but there was no demand, consequently the finest Beauties which have been seen for some time remained with the wholesaler and were carried along as an item on hand. Violets have had very little demand. Many dealers are not even handling them as there was no call.

CHICAGO Chicago market is literally under a cloud. Not a ray of sunshine for many days, but continued fog, mist or rain, and nothing better promised by the weather bureau. Roses are feeling the need of a change for they are apt to be kept too warm in the attempt to ward off mildew. The Christmas supply is causing considerable anxiety to the growers, but there is no accumulation left over from day to day, trade keeping up quite well. Violets are away down at this writing, Dec. 3, singles coming in ruined by the wet weather, and doubles, though many very good, finding no demand the past two days. Carnations are holding up well as to price and so far quality has not suffered so much as might have been expected, but a change in weather conditions would be a great relief at this time. Some large chrysanthemums and a few pompons are about all that are left in this line. The market has a larger proportion of white flowers this week than is desirable.

NEW YORK Thanksgiving business as a whole, was quite satisfactory to everybody. There was a sufficient supply of about everything to fill all demands. Top Beauty roses sold up to 50 cents. Lower grades were not so plentiful and cleaned up well. All colored roses were in brisk demand especially. The surprise was in the big receipts of violets and carnations. Colored carnations sold at excellent prices but, as usual at this time, white ones were a burden and the owners ought to be mighty well pleased that they finished up even as well as they did. The retail stores, when closing up time came, were still overloaded with white carnations, white chrysanthemums, white roses, stevia, paper whites, lilies, etc. Lily of the valley

(Continued on page 787)



Killarney Brilliant

Probably no Rose has won the laurels this Rose has—silver medals, certificates, honors, wherever shown. The best commercial Rose of the future.

OWN ROOT. $30.00 per 100, $250.00 per 1000.

GRAFTED. $35.00 per 100, $300.00 per 1000.

GRAFTING EYES. $200.00 per 1000, January delivery.
Special Quotations on larger quantities.

MATCHLESS. The peerless White Carnation for 1914. Rooted Cuttings, $12.00 per 100, $100.00 per 1000.

VALLEY. Special, $4.00 per 100. Extra, $3.00 per 100.

HEADQUARTERS FOR GREENS

Boxwood. $8.00 per case of 50 lbs.
Galax, bronze and green. $1.00 per 1000; $7.50 per case of 10,000.
Natural Magnolia Leaves. $1.00 per 100; $7.50 per 1000.
Bronze and Green Mahonia. $1.50 per 100; $12.50 per 1000.
Leucothoe, green and bronze. $1.00 per 100; $7.50 per 1000.
Mexican Ivy. $1.00 per 100; $7.50 per 1000.
Laurel Roping, Extra heavy. $6.00 per 100 yards.
Lycopodium. $10.00 per 100 lbs.
Hardy Dagger Ferns. Best quality, large fronds, $1.50 per 1000.
Wild Smilax. $5.00 per case.
Cut Hemlock. $2.50 per bundle.
Green Sheet Moss. $3.50 per bag.
Smilax. 20c. and 25c. per string.
Asparagus Strings. 50c. each.
Asparagus and Sprengeri bunches. 50c. each.
Sphagnum Moss. Burlapped, 10-bbl. bales, $3.75 each; 5-bale lots, $3.50 each; 10-bale lots, $3.25 each.

RIBBONS AND SUPPLIES. Many new patterns in exclusive ribbons. If you have not yet received one of our new catalogues, advise us at once and we will mail you a copy.

BUSINESS HOURS, FROM 7.30 A. M. TO 6 P. M.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | BALTIMORE Franklin & St. Paul Sts.
WASHINGTON 1216 H. St. N. W.

In Writing Advertisers Kindly Mention HORTICULTURE.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON December 4			ST. LOUIS December 1			PHILA. December 2		
Roses									
Am. Beauty, Special	30.00	to	35.00	25.00	to	40.00	30.00	to	35.00
" " Fancy and Extra	20.00	to	25.00	18.00	to	20.00	15.00	to	25.00
" " No. 1	10.00	to	15.00	10.00	to	15.00	5.00	to	12.50
Killarney, Extra	6.00	to	12.00	6.00	to	10.00	6.00	to	10.00
" Ordinary	3.00	to	5.00	4.00	to	5.00	2.00	to	5.00
Richmond, Hillingdon, Extra	6.00	to	12.00	8.00	to	12.00	8.00	to	12.00
" " Ordinary	3.00	to	5.00	5.00	to	6.00	3.00	to	6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	10.00	8.00	to	10.00	8.00	to	12.00
" " " " Ordinary	3.00	to	6.00	4.00	to	6.00	3.00	to	6.00
Russell, Shawyer	.....	to	20.00	.....	to	.....	4.00	to	25.00
Carnations, Fancy	3.00	to	4.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.50	to	2.00	2.00	to	2.50	2.00	to	3.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	40.00	to	60.00
Cypripediums	.....	to	15.00	.....	to	.....	12.50	to	15.00
Lilies, Longiflorum	6.00	to	8.00	12.00	to	15.00	10.00	to	15.00
Callas	.....	to	12.00	10.00	to	12.00	10.00	to	12.50
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	.....	to	3.00	3.00	to	4.00	2.00	to	3.00
Freesias	.....	to	.....	3.00	to	4.00	.....	to	.....
Chrysanthmums	8.00	to	20.00	10.00	to	25.00	5.00	to	25.00
Violets	.75	to	1.00	.40	to	.75	.25	to	1.00
Daisies	.....	to	1.00	.....	to	.....	1.00	to	2.00
Sweet Peas	.....	to	1.00	.50	to	.75	.50	to	1.00
Gardenias	25.00	to	35.00	.....	to	.....	20.00	to	35.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.00
Smilax	10.00	to	12.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	20.00	to	30.00	15.00	to	25.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. {1593 / 5893} Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 29 1913	First Half of Week beginning Dec. 1 1913
American Beauty, Special	35.00 to 50.00	25.00 to 40.00
" " Fancy and Extra	20.00 to 30.00	12.00 to 15.00
" " No. 1	10.00 to 15.00	6.00 to 10.00
Killarney, Extra	5.00 to 10.00	6.00 to 8.00
" Ordinary	3.00 to 4.00	3.00 to 5.00
Richmond, Hillingdon, Extra	5.00 to 8.00	6.00 to 8.00
" " Ordinary	3.00 to 4.00	4.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	6.00 to 12.00	6.00 to 12.00
" " " Ordinary	4.00 to 5.00	4.00 to 5.00
Russell, Shawyer	.... to 15.00	..... to 15.00
Carnations, Fancy Grade	3.00 to 4.00	3.00 to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y.
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST., NEW YORK CITY
Special Attention to the Shipping Trade

WHOLESALE FLORISTS
A. L. Young & Co.
54 West 28th St. New York.
Consignments Solicited

TO GROWERS

Determining the financial responsibility of your consignee is as important as selecting the best flowers to grow. We have the best of references for the ten years we have been in business, from our bankers and our growers, which we will cheerfully furnish upon application.

We desire a few more shippers and if you consign to us we can assure you that we will most conscientiously endeavor to justify whatever confidence may be reposed in us.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 785)

was the only white staple that made any sort of a good record. Since Thanksgiving the pace has moderated somewhat but still the situation is quite satisfactory. Cattleyas are very scarce, labiatas being about finished and Trianæs still a future proposition with Gaskelliana holding the field at prices double those of last season at same date. Southern grown asparagus is coming in by the truck-load and, while selling well, the supply exceeds the demand. Bonnaffon is the chrysanthemum most in evidence everywhere.

PHILADELPHIA Thanksgiving week was pretty good here and would have been better if we had had the usual army and navy game. But notwithstanding; stocks were pretty well cleaned up and there was no great surplus. Towards the end of the week carnations sold better and prices held firm. The quality keeps improving—the leaders at present being Ward, White Wonder, Enchantress Supreme and Gloriosa. In roses fine crops of Beauty and Richmond are coming is and are selling well. Killarney leads in the pink rose section very fine although a little off color on account of the dull weather. White Killarney has the field all to itself. In the yellow class Sunburst, Mrs. Aaron Ward and Melody are very good. Gardenias are in moderate supply with demand excellent. There are still a few chrysanthemums around — mostly Jones, Eaton, Chadwick and Nonin. The only pink is Enguehard and so few hardly worth mentioning.

ST. LOUIS The Thanksgiving market was in good shape all during the past week. Of chrysanthemums the market had a good supply. They are now on the decline. The season on them has been good in both price and quality. The demand on roses, carnations, was also good all week, the former holding its own while the latter are more in quantity than the demand calls for. California violets sell out each day. Sweet peas are not yet in plenty but the few are of extra good quality and clean up easily. Most other things are more than the demand calls for.

WASHINGTON Business for the past week shows a decided improvement over the brand that has been so familiar in Washington for some time back. Thanksgiving Day business was the equal of any of the previous years. The dark and rainy days have greatly lessened the supply of carnations causing the prices to rise. Cattleyas, too, are very scarce and American Beauty Roses have advanced in price. The supply of violets is very heavy. Narcissus is among the new arrivals but is meeting with a limited sale as yet.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 29 1913	First Half of Week beginning Dec. 1 1913
Cattleyas	35.00 to 75.00	40.00 to 75.00
Cypripediums	..... to 12.00	..... to 12.00
Lilies, Longiflorum	5.00 to 6.00	4.00 to 8.00
Callas	..... to 12.00	..... to 10.00
Lily of the Valley	2.00 to 4.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	..... to	..... to .....
Chrysanthemums	2.00 to 25.00	3.00 to 25.00
Violets	.50 to 1.00	.50 to 1.00
Daises	.50 to 1.00	.50 to 1.00
Sweet Peas	.... to 1.00	..... to 1.00
Gardenias	25.00 to 50.00	25.00 to 35.00
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	10.00 to 20.00

Personal

W. A. Bridgeman has severed connection with the new Thos. F. Galvin store in New York.

Harry Francis, formerly of Madison, N. J., but recently in Florida, is at the Post Graduate Hospital in New York City, to undergo an operation for appendicitis.

Mrs. Ella F. Belcher of So. Weymouth, Mass., and John G. Burrows of Onset, were married at the latter town Sunday, Nov. 16th. Mr. Burrows is a well-known florist.

We are much pleased to be able to report that James Farquhar of Boston who has been confined to his home by illness which for a time alarmed his friends is rapidly recovering and expects to be fully able to go back to business within two weeks.

William Hogg, employed in the bulb department of A. T. Boddington, New York City, was accidentally asphixiated by escaping gas at his boarding house last Sunday morning and is still unconscious at the hospital, with chances for recovery very slim.

James McLeish, the Newport grape grower, returned home Nov. 26 after a six weeks' vacation, visiting Scotland, his native country. Among the many places he explored besides Roseneath, his native town, was Edinburgh where he attended the horticultural exhibition, and reports great progress having been made in chrysanthemums, grapes and other things during his absence of twenty-seven years. Mr. McLeish was accompanied by Mrs. McLeish.

New York Visitors: Frank Holznagel, Detroit, Mich.; Louis J. Reuter, Westerly, R. I.; Mr. Myers, of Myers & Samtman, Chestnut Hill, Pa.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $3.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For Christmas.
For page see List of Advertisers.

BOILERS

Kroeschell Bros Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburg, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., 53 Barclay St., N. Y.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., 71 Murray St., New York
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.

A. Henderson & Co., 369 River St., Chicago, Ill.
Lilium Giganteum
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Weeber & Don, New York.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Jersey Grown Callas.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

Conard & Jones Co., West Grove, Penn.
Swastika Brand Cannas.
For page see List of Advertisers.

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

C. Winterich, Defiance, Ohio.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZECH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Market and 49th Sts., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos 41 West 28th St., New York.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

J. M. Keller Co., Inc., Fifth Ave. and 65th St., Brooklyn, and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE

Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Ernest Oechlin, Gale Ave. and Madison St., River Forest, Ill.
Ferns for Dishes.
For page see List of Advertisers.

For List of Advertisers See Page 763

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., 31 Union Stock Yards, Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co.,
278 Washington St., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., Long Acre Bldg., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., 66 Pearl St., Boston, Mass.
For page see List of Advertisers.

American Importing Co.,
219 So. Dearborn St., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., 112 Arch St., Boston.
For page see List of Advertisers.

M. Rice Co., 1220 Race St., Phila., Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St., Boston.
For page see List of Advertisers.

Komada Bros., 1008 Vine St.,
Philadelphia, Pa.
For page see List of Advertisers.

FLOWERING PLANTS

A. L. Miller, Jamaica Ave., opp. Schenck Ave., Brooklyn, N. Y.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FREESIA

Arthur T. Boddington, New York City.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

FUNKIAS—VARIEGATED

Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co.,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

GLADIOLUS

Arthur T. Boddington, New York City.
Baby Gladioli.
For page see List of Advertisers.

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., 215-217 Havemeyer St., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, breeder, 4815 D. St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Pierson U-Bar Co., Madison Ave., New York.
Designer and Builder.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., 1170 Broadway, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange,
38 and 40 Broadway, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co.,
1133 Broadway, New York.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

B. G. Pratt Co., Dept. 12, 50 Church St., Scalecide.
New York City.
For page see List of Advertisers.

The H. A. Stoothoff Co., 13-15 Prospect Ave., Mt. Vernon, N. Y.
Aphicide Powder.
For page see List of Advertisers.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.

LILY OF THE VALLEY PIPS

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

J. M Thorburn & Co., 53 Barclay St., New York.
Cold Storage.
For page see List of Advertisers.

MASTICA
F. O. Pierce Co., 12 West Broadway, N. Y

MUSHROOM SPAWN
Wm. Elliott & Sons, New York.

NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
Nikotiana.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciduous Trees.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Forcing Shrubs and Plants.
For page see List of Advertisers.

ONION SETS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS
Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.
A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, 59 Barclay St., N. Y.
For page see List of Advertisers.

PALMS, ETC.—Continued
Otto Heinecken, 17 Battery Place, New York City.
For page see List of Advertisers.

PEAT
J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES
J. M. Thorburn Co., 53 Barclay St., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., 466 Erie St., Chicago.
For page see List of Advertisers.

King Construction Company.
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS
August Rolker & Sons, 51 Barclay St., N. Y.
For page see List of Advertisers.

McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POTASH
German Kali Works, Inc., 42 Broadway, New York.
For page see List of Advertisers.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA
McHutchison & Co., 17 Murray St., N. Y.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS
McCray Refrigerator Co., Kendalville, Ind.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES
P. Ouwerkerk, P. O. No. 1, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

ROSES—Continued
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.
For page see List of Advertisers.

SEEDS
Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., 90-92 West Broadway, N. Y.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., 53 Barclay St., N. Y.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., 11 Warren St., N. Y.
For page see List of Advertisers.

T. J. Grey Co., 32 So. Market St., Boston.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Weeber & Don, 114 Chambers St., New York.

J. Oliver Johnson, 1661 North Leavitt St., Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

J. J. Wilson Seed Co., 79 Orange St., Newark, N. J.
Flower Seeds for Florists.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

For List of Advertisers See Page 763

SEEDS—Continued

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SNAPDRAGONS

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots, $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., 53 Barclay St., New York City.
For page see List of Advertisers.

A. T. Boddington, 342 West 14th St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Spiraea Clumps.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Venitlator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
For page see List of Advertisers.

Komada Bros., 1008 Vine St., Philadelphia, Pa.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

M. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 105 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St., New York.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Wm. H. Kuebler, 28 Willoughby St. Brooklyn, N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St., New York.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St., New York.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, New York, N. Y.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., New York, N. Y.
For page see List of Advertisers.

J. K. Allen, New York, N. Y.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St., New York
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St., N. Y.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St., N. Y.
For page see List of Advertisers.

B. S. Slinn, Jr., 55 and 57 West 26th St., New York City.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St., Philadelphia, Pa
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-12 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

CARNATION PHILADELPHIA.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRISTMAS PLANTS.

J. A. Peterson & Sons, Cincinnati, Ohio.
For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
For page see List of Advertisers.

GERANIUMS—ASPARAGUS—DRACAENAS.

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

HEADQUARTERS FOR LILIUM TENUIFOLIUM, AMARYLLIS FORMOSISSIMA.

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

HOLIDAY PLANTS WANTED.

C. C. Trepel, Brooklyn and New York City.
For page see List of Advertisers.

JACK FROST MATS.

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

LILIUM GIGANTEUM AND SPECIOSUM BULBS FOR FORCING.

Yokohama Nursery Co., Ltd., New York.
For page see List of Advertisers.

NEW ROSE PRINCE E. C. DE ARENBERG.

S. J. Reuter & Son, Inc., Westerly, R. I.
For page see List of Advertisers.

POTASH.

German Kali Works, New York.
For page see List of Advertisers.

STOCK CHRYSANTHEMUM PLANTS.

Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

UNITED ICE MACHINES.

United Refrigerator & Ice Machine Co., Kenosha, Wis.
For page see List of Advertisers.

XMAS GOODS IN QUANTITY.

Welch Bros., Boston, Mass.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—An experienced and highly responsible man as superintendent and head gardener on a large, private estate near New York, with extensive greenhouse. Must be a scientific gardener and grower and thorough business man accustomed to handling men, with best references. None other need apply. Liberal salary. Answer with full details. "GARDENER," P. O. Box S22, N. Y. City.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

HARRY A. BUNYARD.

Few of our readers will need any introduction to the portrait which appears herewith. The energetic secretary of the American Sweet Pea Society is known from the Atlantic to the Pacific wherever a horticulturist is found. We are not bringing him forward at this time as a candidate for any office, although he's a good one, or because he has been doing anything sensational of late, but just to call attention to the fact that this week (Dec. 1) he is being congratulated by his friends on the 25th anniversary of his arrival in this country. Harry is (or was) an Englishman, but of course he couldn't help that. He was born in 1868, and came to America in 1888. He was employed for a time at Peter Henderson's, then went with Pitcher & Manda at Short Hills, being the first



HARRY A. BUNYARD

traveling man sent out by that firm and the last one to quit when they broke up. Shortly afterwards he accepted a position with A. T. Boddington which he has ably and industriously filled up to the present time.

He organized the American Sweet Pea Society and has acted as its Secretary ever since. He is just completing a three-years' term as Director of the S. A. F. In these positions of honor and other duties of like character he is a "live wire," endowed with quick perception and intelligent mastery of detail. Of a buoyant disposition and strong social impulses, Harry Bunyard has made lots of warm friends in the years he has been one of us and all will join in wishing him many happy returns of the anniversary he now celebrates and all the prosperity that can come from well directed industry.



Fortify Your Fertilizer

Did you see your fertilizer dealer and arrange to buy fertilizer containing at least as much

POTASH

as Phosphoric Acid? That is the real kind that pays you and the dealer. If you did not, you should at once ask your dealer to carry Potash Salts so that you may increase the Potash in the ordinary brands. To increase the Potash 1 percent, add 40 pounds Muriate or Sulphate of Potash to a ton of goods. A 200-pound bag will increase the Potash of a ton 5 percent.

Try it once and see how Potash Pays.

If your dealer will not carry Potash Salts write us for Prices. We will sell any quantity from one 200 pound bag up.

GERMAN KALI WORKS, Inc., 42 Broadway, New York

Chicago, McCormick Block New Orleans, Whitney Central Bank Bldg. Atlanta, Empire Bldg.
San Francisco, 25 California Street Savannah, Bank & Trust Bldg.

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

PERSONAL.

P. Hamilton Goodsell, of New York, has been seriously ill with pneumonia for several weeks.

Paul Volquardsen, Newport, R. I., who has been seriously ill for many weeks, is still in a very critical condition with Bright's disease and other complications.

J. K. M. L. Farquhar, on his recent trip abroad secured a large variety of new hardy plant material among which is included the entire collection of lilacs at the Veitch nurseries, said to be the finest collection of own-root lilacs in Europe.

Mr. and Mrs. James H. Leach of North Easton, Mass., celebrated their 50th wedding anniversary on Nov. 24, by entertaining a large number of relatives and friends at their home on Center street. Mr Leach was born in Jay, Me., 82 years ago. He was for several years engaged in the meat business in Chelsea, later being employed at shoemaking, and for the past 25 years has been in the florist business in North Easton.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

When writing to advertisers kindly mention HORTICULTURE.

Don't Neglect Fall Spraying **"SCALECIDE"** Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF.

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "12", 50 Church Street, New York City.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**
APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

UDSON CARBON CO., BALLSTON SPA, N.Y.

In Writing Advertisers Kindly Mention HORTICULTURE

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

NIKOTIANA is a 12% nicotine solution specifically adapted for fumigating or vaporizing greenhouses.

NIKOTIANA is vaporized over small lamps or by painting on steampipes.

VAPORIZING with **NIKOTIANA** fills the house with nicotine fumes which will effectively destroy the insects intended for.

FUMIGATING with tobacco paper or tobacco dust fills the house with smoke which is not beneficial to plant life.

Quarts, $1.50. Gallons, $4.50

For sale by seedsmen and supply houses.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE — FUNGINE — SCALINE
VERMINE

British Distributors:
BRITISH & AMERICAN FERTILIZING CO.
Liverpool, England

Mention HORTICULTURE when writing



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27& 29 OCEAN ST., ∴ BEVERLY, MASS.

Obituary

Thomas Jardine.

Thomas Jardine, a retired florist and landscape gardener, died Nov. 21, at the Odd Fellows' Home, Phila. He was 67 years old. Mr. Jardine was born in Philadelphia. He spent his life as a florist. He entered the home in May, 1911, and during the two summers he was there, lawns and gardens were especially beautiful with grass and flowers.

Edward Upton.

Edward Upton, a promising young man, has passed away at an early age. He was of the firm of Lilley & Upton, wholesale florists, Philadelphia, Pa., and later with the Leo Niessen Co. At one time he had charge of the distribution department of John Welsh Young. He was well-known and very well liked and we will all miss his genial personality.

Herbert G. Thomas.

Herbert G. Thomas, a well-known nurseryman in Springfield, Mass., died early Monday morning, Nov., 24, at the Springfield hospital, following an operation. Mr. Thomas was taken ill on Friday, and after an operation Sunday he failed rapidly. He was born in North Rutland, November 19, 1844, and spent his early life in that place. He came to this city 35 years ago and entered the fertilizing business with Nelson Adams of Springfield. After 15 years he retired from that business and took up the nursery business.

Mr. Thomas was an enthusiastic horticulturist and was also quite a genius for inventing things. He had invented several implements which are still in use around greenhouses.

William C. Crawford.

William C. Crawford, who for about fifteen years was manager of the American Rose Company, of Washington, D. C., died on Saturday last at his late residence at 11 S street, northwest. Mr. Crawford was a native of Philadelphia and was about fifty-six years of age. When a very young man he entered the employ of Pennock Bros., in the Quaker City, and it was while with this firm that he learned the florist business. He then went into business on South 15th street in the firm of Faust & Crawford. He later came to this city, returning to Philadelphia about ten years ago when he went with Robert Kift. Some time ago his health failed and as his son is employed by the Government, and his daughter is the wife of Frank Slye, a florist of Washington, he decided to go to Washington to live, taking possession of the S street house about a month ago. Mr. Crawford is also survived by his wife. His body was taken to Philadelphia and placed at rest in Fernwood Cemetery.

GREENHOUSES BUILDING OR CONTEMPLATED.

New Haven, Ct.—J. J. Sokol, one house.

Guthrie, Okla.—John Furrow, house 27 x 300.

Chisholm, Minn.—Park Department, one house.

Rice Lake, Wis.—C. A. Hanneman, house 14 x 75.

Moscow, Idaho—Scott Bros., vegetable house 30 x 125.

Decatur, Ind.—Ed. S. Moses, additions and alterations.

Chicago, Ill.—Michael Kinsch, 7344 North Western avenue.

St. Louis, Mo.—John Nyflot, 7315 Florissant avenue, addition.

Philadelphia, Pa.—Mrs. W. McLean, Queen Lane, house 18 x 60.

Brooklyn, N. Y.—Dailledouze Bros., Lord & Burnham carnation house.

Williamstown, Mass.—A. M. Stevens, Green River road, house 22 x 25.

Racine, Wis.—W. S. Jackson, Asylum Avenue Greenhouses, house 25 x 175.

THE MEANING OF "1 INCH OF RAIN."

On every daily weather bulletin or chart the amount of rainfall at various places during the preceding 24 hours is printed in inches and hundredths of inches. In a general way the public understands that a rainfall of 2 inches in one day is heavy, and that one of a tenth of an inch is light, but no attempt is made to associate the linear measurement of the water with its equivalents in weight or bulk. This is necessary for a proper understanding of the actual quantitative value of the rain, and the few figures following may prove of assistance in making calculations.

An acre of ground contains 43,560 square feet. Consequently, a rainfall of 1 inch over 1 acre of ground would mean a total of 43,560 × 144, or 6,272,640 cubic inches of water. This is equivalent to 3,630 cubic feet. As a cubic foot of pure water weighs about 62.4 pounds, the exact amount varying slightly with the density, it follows that the weight of a uniform coating of 1 inch of rain over 1 acre of surface would be 3,630 × 62.4 = 226,512 pounds, or 113¼ short tons.

The weight of 1 United States gallon of pure water is 8.345 pounds. Consequently a rainfall of 1 inch over 1 acre of ground would mean 226,512 ÷ 8.345 = 27,143 gallons of water on the acre. This is equivalent to 603 barrels of 45 gallons each, and would be sufficient to fill a tank or pool about 20 feet square and 9 feet in depth. Should a farmer desire to build a cistern to be supplied by rainwater from a roof, he can, if he knows the annual rainfall of his locality, so construct his cistern as to make the best possible use of the rainfall. For instance, a rainfall of 1 inch on a roof of 3,000 square feet capacity would mean a total volume of 432,000 cubic inches, or 250 cubic feet, available for the cistern (loss from splashing, etc., not considered). This is equal to 1,870 United States gallons, or about 41.5 barrels of 45 gallons each, enough to fill a cistern 8 feet in diameter to a depth of 4.97 feet.





DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

Do You Know What You Want ?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

See ?

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

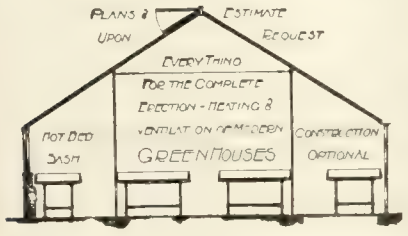
WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Roiker & Sons, 51 Barclay St., N. Y.City, Agents
OUR SPECIALTY — Long Distance and Export Trade

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Mention HORTICULTURE when writing.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

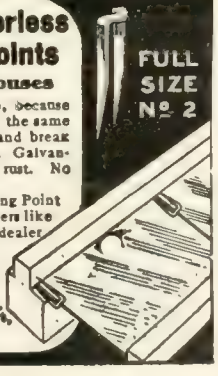
Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass.
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS.
CHICAGO, ILL.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

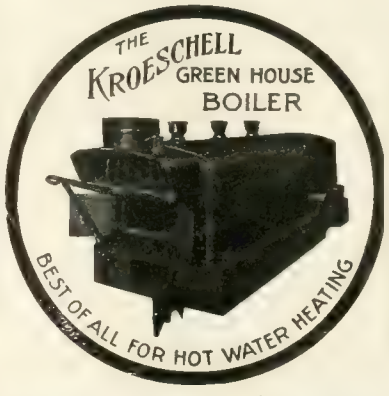
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.



PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

FOR SALE
Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.
ROBT. ROSS JONES, Harrisburg, Pa.
Mention HORTICULTURE when writing

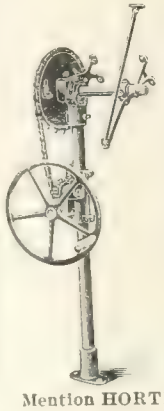
Order Now!



Kroeschell Bros. Co.
466 W. Erie St. - - CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.
Mention HORTICULTURE when writing



John Weston of Valley Stream, N.Y. Puts In His Good Word for L. & B. Houses



"The new Iron Frame house is most satisfactory. Of course, being a new house, I have yet to find out by experience just how it's going to turn out, but so far there hasn't been a quiver and we have had one or two pretty stiff blows. The chain operated apparatus works like a watch.
The heating plant is easily managed.
Altogether, it is, I consider, one of my best investments."

John Weston

Lord and Burnham Company

SALES OFFICES

NEW YORK 42nd Street Bldg. | BOSTON Tremont Bldg. | PHILADELPHIA Franklin Bank Bldg. | CHICAGO Rookery Bldg. | ROCHESTER Granite Bldg. | TORONTO, CANADA 12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

Xmas Goods in Quantity

NO doubt you are looking for good value in flowers, and we can assure you we are in a position to give you the best to be had in this line. If you buy our stock we are prompted to suggest that you will have that satisfaction of getting quality that is bound to please you and your trade. Therefore take no chances at this season, and let us fill your Christmas orders.

Bronze Galax—Laurel—Holly—Leucothoe—Boxwood

New crop now ready to be shipped immediately on receipt of order.

ROSES---BEAUTY, HADLEY, Mme. RUSSELL, KILLARNEY QUEEN, CARDINAL, SUNBURST, WARD, and other leading varieties, also a choice supply of the New Tea Rose HILDA.

CARNATIONS---Of the most selected quality, in any quantity.

Orchids, Cypripediums, Gardenias, Valley, and other Novelties that cannot be surpassed by any other Floral Establishment.

Order Early and Avoid any Possible Disappointments.

WELCH BROS. CO., 226 Devonshire St. BOSTON, MASS.

Long Distance Telephone Connection.

Xmas Number

HORTICULTURE



VOL. XVIII DECEMBER 13, 1913 No. 24

CLAGGETT

Preliminary Announcement!

NOVELTY

Chrysanthemums Roses Carnations

As has been the case in previous years, our introductions in 'Mums for 1914, will again be the Prize Winners, at all the exhibitions, both East and West.

Our Prize Winners for this year will be:

James Fraser

Mrs. Paul Moore

Daily Mail, Yellow

Meudon, Pink

Mrs. R. H. Boggs
White

William Vert and

Mrs. Ernest Wild
Crimson



PHYLLIS BRYANT.

Our **Gold Medal** list of **Singles** will set a new standard for this popular type of 'Mum.

Phyllis Bryant
←←← See Illustration

R. B. Burge,

Gladys Duckham

and others, giving us a type that will stand shipping and handling.

The **Cap Family** have proven themselves to be the best Pot varieties ever distributed.

RED ROSE—PRINCE E. C. D'ARENBERG

We have secured an interest in this Rose from S. J. Reuter & Son, and offer it with every confidence of its being the best Rose in its color so far presented to the American trade. Also, **KILLARNEY BRILLIANT,** ; ink, and **OPHELIA,** a lovely bright salmon.

CARNATIONS

Gorgeous, Matchless, Philadelphia, Princess Dagmar and Mrs. Cheney

Send for Catalog—Now on the Press

TOTTY, THE NOVELTY MAN

MADISON, NEW JERSEY

GERANIUMS

We are Headquarters; have a splendid stock, in excellent shape. Our collection is second to none in the country.

GOOD STRONG STANDARD VARIETIES

2-inch plants, **$2.00** per 100, **$18.50** per 1000; 3-inch, **$3.00** per 100, **$25.00** per 1000.

MARYLAND will be our introduction for 1914, the scarlet destined to lead all others. **50c.** each; **$5.00** per dozen.

R. VINCENT, JR. & SONS CO., White Marsh, Md.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren St., New York, N. Y.

Write for quotations

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.50 per 100; $30.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

CHRISTMAS

Azaleas, Ardisias, Ferns

Fine Goods. Send for Prices.

JOHN McKENZIE

NORTH CAMBRIDGE, MASS.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

NOW READY—

Hohmann's Lily of the Valley

sample cases per 1000.....$16.00

Lilium Giganteums

7 9-inch, 500 per case..... 18.00
8 10-inch, 225 " " 20.00

LIST OF ADVERTISERS

Page
Advance Co.....855
Albany Cut Flower Ex.836-844
Allen, J. K.....844
Am. Importing Co.....829
Anderson, S. A..834
Aphine Mfg. Co.853
Aschmann, G.....824
Ayres Co., S. Bryson 836
Badgley, Reidel & Mayer.....844
Baisley, Harry..851
Barrows & Son.804
Bayersdorfer, H. & Co. 837
Bay State Nurseries 825
Berger Bros.....839
Bird Steel-frame Greenhouse Co.851
Bloomingdale's, 832
Bobbink & Atkins 825
Boddington, A.T.831
Bolgiano & Son, J. 830
Boston Florist Letter Co.....842
Breck, J. & Sons.830
Breck - Robinson Nurseries 825
Breitmeyer's, J. Sons 832
Brookland Gardens 820
Bryan, Alonzo J.819
Burnett Bros.... 828-830
Burpee, W. A. & Co. 830
California Florist 833
California Seed Growers' Asso.830
Chicago Carnation Co.....842

Page
Cooke, Geo. H...834
Childs, John Lewis 801
Conrad & Jones Co. 820
Consumers Fertilizer Co.....853
Clarke's, D.Sons.832
Cottage Gardens Co. 801
Cowee, W. J....842
Craig, Robt. Co.802
Dards 832
Davenport, A. M.825
Dawson, H. S..804
Detroit Flower Pot Co.....851
Dorner & Sons Co. 804
Dreer, H. A..... 823-851-854
Dunlop, John H.833
Dysart, R. J....842
Eastern Chemical Co. 852
Eastern Nurseries 804
Edgar, W. W. Co. 819
Edwards Folding Box Co.....842
Elliott's, W.Sons.830
Eppstein, Julius.833
Ernest, W. H...851
Esler, J. G.....854
Eyres 832
Farquhar, R. & J. & Co.....803
Felthousen, J. E.801
Foley Greenhouse Construction Co. 851
Ford, M. C.....844
Ford, W. P.....844
Forrest, Frank H.833
Fottler, Fiske, Rawson Co....830
Freeman Orchid Co. 819

Page
Framingham Nurseries 825
Froment, H. E..844
Galvin, Thos. F.835
Gasser, J. M. Co.833
Goodsell, P. H..825
Grey, T. J. Co..830
Gude Bros. Co..833
Hail Association.854
Hall & Robinson.833
Hart, Geo. B.836-845
Heacock, Jos....824
Heinecken, Otto.830
Henderson, A...801
Hess & Swoboda.832
Hews, A. H. & Co. 851
Hill, E. G. Co..842
Hoffman 834
Holland Nurseries 822
Hilfinger Bros...851
Hitchings & Co.855
Holm & Olson..832
Hudson Carbon Co. 853
Huebner, H.....804
Industry Moss & Peat Co.....819
Jager, C. J. Co.852
Johnson, J. Oliver 830
Jones, Robert Ross 855
Joy Floral Co...833
Kasting, W. F. Co. 845
Kervan Co.....844
Keller, J.B.Sons.832
Keller, J. M. Co.804
King Construction Co.....851
Komada Bros...840
Kramer, F. H...833
Kroeschell Bros.854
Kuebler, W. H..844
Lager & Hurrell.819
Lemon Oil Co...852
Leonard Seed.Co.830

Page
Leuthy, A. & Co.804
Loechner & Co..799
MacMulkin, E...833
May & Co., L. L.834
McCarthy, N. F. Co. 841-842
McCallum Co....845
McConnell, Alex.832
McHutchison & Co. 804
McKenna & Son, P. 833
McKenzie, John.799
McManus, Jas... 826-827-844
Metropolitan Material Co.....854
Michell's Seed House 829
Michigan Cut Flower Ex.....842
Millang, Chas...844
Millang, Frank..844
Miller, A. L.....801
Moninger, J. C. Co. 854
Montreal Floral Exchange 844
Moore, Hentz & Nash 839-844
Mt. Desert Nurseries 803
Murray, Samuel. 832-837
National Nurseryman 825
Nicotine Mfg. Co.853
Niessen, Leo. Co.842
N. Y. Stable Manure Co.....853
Oechslin, Ernest.824
Oechslin, Frank.799
Ouwerkerk, P...822
Palmer, W. J. & Son 833
Park Floral Co.832
Parshelsky Bros.854
Patten & Co....821

Page
Pennock - Meehan Co. 843
Penn the Florist.833
Perkins, A. N. ..825
Pierson, F. R.Co.834
Pierson U-Bar Co. 856
Plant Food Co., 20th Century..853
Poehlmann Bros. Co. 824-842
Pollworth, C. C.832
Pulverized Manure Co.....853
Quaker City Machine Co.....854
Randall's Flower Shop 834
Reed & Keller..844
Reid, Edw.....845
Reinberg, Peter.842
Reuter's 834
Reuter, S. J. & Son 822
Rice, M. Co.....833
Riggs, Wm. A..820
Robinson Co., H. M. 840-844
Roehrs, J. Co...800
Roland, Thomas.819
Rolker, A. & Sons 829-851
Rosery, The.....832
Sander & Son...819
Scott, John 804
Scott, Robt. & son 819
Sceling, Max....833
Schwake, Chas. & Co.....799
Sheridan, W. F..844
Sharp, Partridge & Co.....855
Shepards Garden Carnation Co..819
Siebrecht, Geo. C. 838-844
Siggers & Siggers 855

Page
Skidelsky, S. S. & Co.....801
Slinn, B. S.....845
Smith, P. J.....844
Smith & Co., D. 825
Smith, W.& T.Co.825
Smyth, Wm. J..832
Sprague, J. H..819
Stearns, A. T. Lumber Co....855
Stoothoff, H. A. Co. 852
Stumpp, Geo. M.832
Totty, Chas. H.798
Thorburn, J. M. & Co.....830
Tricndly & Schenck 844
Trepel, C. C....823
United Refrigerating & Ice Machine Co.....839
Valentine, J. A..832
Vincent, R., Jr., & Sons Co....799
Van Assche, F...854
Walsh, M. H...818
Wants, For Sale.849
Ward, R. M. & Co. 804
Weber, F. C....833
Welch Bros..839-842
Whittier & Co., W. B.....825
Wilson, J. J. Seed Co.....830
Winterich, C....822
Wood Bros.....804
Woodrow & Markets 840-845
Yokohama Nurseries 830
Young, A. L....845
Young, John.838-844
Young & Nugent.832
Zangen, O. V....830
Zinn, J. A.....833
Zvolanek, Ant. C.830

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 846,847,848,849

Roehrs' Celebrated Valley

RECOGNIZED AS THE STANDARD OF EXCELLENCE

WE CAN SUPPLY

Cold Storage and Fresh Pips

IN ANY QUANTITY

PRICE ON APPLICATION

J. ROEHRS CO.,

Rutherford, N. J.

MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless, the New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class—21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS

COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK



THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

HEADQUARTERS FOR

LILIUM TENUIFOLIUM

If you need 12—100—1000 or 10,000 we have them here waiting for your orders.

75c per doz., $6.00 per 100, $50.00 per 1000
6 per cent for cash with order

If you cannot secure **AMARYLLIS FORMOSISSIMA** elsewhere we can supply you at $5.00 per 100.

We have many splendid bulbs at **FLOWERFIELD** all ready for prompt shipment.

JOHN LEWIS CHILDS, FLOWERFIELD, L. I., N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE.

You Cannot Possibly Go Wrong
by investing in the

PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.
1218 Betz Building
Philadelphia, Pa.

FLOWERING PLANTS

Hydrangea Avalanche—4 to 8 branches, 6½ to 7 in. pots, 35c. and 50c. each.
Deutzia gracilis—6½ in. pots, 15 to 20 branches, home grown, excellent stock, far superior to foreign grown, 20c. each.
Marguerites—6 in. pots, very bushy, will make fine plants for Easter, 25c. each.
Have a small surplus of the above stock which was grown for our Easter trade and is all first-class.
Primula Obconica—Finest mixed: 2¼ in. pots, $3.00 per 100; 3 in. pots, $5.00 per 100, ready for 4½ and 5 in. pots.

A. L. MILLER
Jamaica Ave., opposite Schenck Ave., BROOKLYN, N. Y.

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

GERANIUMS TO MAKE ROOM

S. A. NUTT, 2¼ in., $15.00 per 1000. In fine condition.
POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.
ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.
FUCHSIAS, 2¼ in., $2.00 per 100.
DRACAENAS, 3 in., $4.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave., Schenectady, N. Y.
Mention HORTICULTURE when writing

In writing to Advertisers kindly mention Horticulture

CRAIG QUALITY! The Largest and Best Collection of Christmas Specialties in the Country

PLANT BASKETS.

Our Plant Baskets have been so well received that they are now a very important feature of our Christmas business. All are first class, as to style of basket and filling. Nothing but highly-colored, well-grown stock is used, such as Dracaenas in variety, Crotons, Pandanus, Ferns, etc. On account of being filled early and becoming established, they are bound to give you and your customer satisfaction. Many of the baskets and window boxes are in two-tone effect. All baskets have zinc (not tin) liners.

Window Box shape, 18 inches long, 6 inches wide, 6 inches deep, $3.50 and $4 each

Handle Baskets, in variety, $2.50, $4 and $5.

CYCLAMEN (15,000).

5-inch pots, $6, $9 and $12 per doz.

6-inch pots, $12, $15, $18 and $24 per doz.

7-inch pots, 22 to 24-in. diameter, $2 and $2.50 each.

7-inch and 8-inch, heavy, $3 and $3.50 each.

POINSETTIAS (30,000).

3-inch pots, $15 per 100.

4-inch pots, $25 per 100.

5-inch pots, heavy, $50 per 100.

7-inch pans, 3 plants with ferns, $15 per doz

8-inch pans, 3 plants with ferns, $18 per doz.

9-inch pans, 3 plants with ferns, $24 per doz.

8-inch low pans, 5 plants with ferns, $15 and $18 per doz. 10-inch low pans, 5 plants with ferns, $24 and $30 per doz

DOUBLE POINSETTIAS.

3-inch pots, heavy, $20 per 100.

Cut Poinsettias, [illegible] very large flowers, $3 and $4 per doz.

BEGONIA GLOIRE DE LORRAINE (20,000).

2-inch pots, $12 per 100.

2½-inch pots, $15 per 100.

3-inch pots, $20 and $25 per 100.

4-inch pots, $35 per 100

5-inch pots, $7.50 per doz.; $50 per 100.

6-inch pots, heavy, $2 per doz.; $150 per 100.

BEGONIA LONSDALE.

We have a large stock of this right sport of the same parentage as the Begonia Glorie de Lorraine. This variety is considered far superior to the original type, making a finer shape plant and holding the flowers much better.

BEGONIA GLORY OF CINCINNATI.

2½-inch, $20 per 100. 3-inch, $35 per 100. 4-inch, heavy, $50 per 100.

BEGONIA AURORA (NEW).

This is a wonderful new Begonia for Christmas. It has foliage of the deepest shade of green and bears flowers of a golden-reddish color, much the same coloration of coloring as the new "Irish Fire Flame" rose.

3-inch pots, $35 per 100.

4 inch pots, $7.50 per doz.

5 inch pots, $9 and $12 per doz.

6-inch pots, $15 and $18 per doz.

CROTONS.

We have the largest and most complete collection of Crotons in the world, carrying for Chirstmas sales over 50,000 plants in over 400 varieties, all of the very highest quality and brilliantly colored.

5-inch pots, strong, $50, $75 and $100 per 100.

6-inch pots, strong, $12, $15, $18 and $24 per doz.

7-inch pots, strong, $24, $30 and $36 per doz.

8-inch pots, made up beautiful plants, $24, $30 and $36 per doz.

10-inch pots, made up, $5, $6 and $7.50 each.

12-inch and 14-inch tubs, made up, $10 and $15 each.

CROTON PUNCTATA.

One of the finest and most satisfactory varieties for basket work and centers of ferneries.

2½-inch pots, $8 per 100; $75 per 1000.

3-inch pots, $20 per 100; $150 per 1000.

4-inch pots, $25 per 100; $225 per 1000.

8-inch pots, made up, $18 and $24 per doz.

CROTON NORWOOD BEAUTY.

This variety is one of the best of our seedlings raised three years ago. This variety has an oak-shaped leaf and is brilliantly colored red, yellow and orange.

4-inch pots, heavy, $50 per 100.

5-inch pots, heavy, $12 per doz.

6-inch pots, heavy, $18 per doz.

CROTON CHANTRIERII MAJOR.

One of the best of the French introductions. Very large leaf, brilliant red and yellow.

4-inch pots, $6 per doz. 5-inch and 5½-inch pots, 75c., $1, $1.25 and $1.50 each.

CROTONS (Delicatissima, Golden Thread and Florence).

These varieties are indispensable for table decoration and we predict a great future for them.

2¼-inch pots, heavy, $25 per 100.

4-inch pots, heavy, $50 per 100.

5-inch pots, heavy, 75c. and $1 each.

6-inch pots, heavy, $15 and $18 per doz.

DRACAENA MASSANGEANA.

The variety with the golden stripe down the center of the leaf. This handsome plant is the best of all Dracaenas for the house.

4-inch pots, $7.50 per doz.; $50 per 100.

10-inch pots, $5 and $6 each

DRACAENA LORD WOLSELEY

One of the very most valuable Christmas.

2-inch pots, $12 per 100.

3-inch pots, very large, $25 per 100.

DRACAENA CRAIGII.

[illegible] We consider this variety the most beautiful pink Dracaena ever offered and one of the most striking in existence.

Strong plants, 5-inch and 6-inch pots, $5 each.

DRACAENA AURORA (NEW).

First time offered. Distinct, the coloring of a pinkish blending with light green.

Strong plants, 5-inch and 6 inch pots, $5 each.

PHOENIX ROEBELENII.

6-inch pots, $1 and $1.25 each.

10-inch and [illegible] plants, $10, $12.50, $15 and $20 each.

KENTIAS.

3-inch pots, 4 to 5 leaves, $15 per 100; $140 per 1000.

6-inch pots, 3 plants, heavy, 18 inches to 24 inches tall, $9 per doz.

FICUS PANDURATA.

6-inch pots, 2½ ft. tall, $2 each.

7-inch pots, 3 ft. tall, $2.50 each.

8-inch pots, 4 ft. tall, $3 each.

10-inch and 11-inch tubs, 5 ft. tall, $4 and $5 each.

Branch plants, exceptionally fine, $2.50, $3, $3.50 and $4 each.

FICUS CHAUVIERI.

6-inch pots, 18 inches to 36 inches high, $6, $9 and $12 per doz. Large plants, $1.50 and $2 each

FICUS UTILIS.

A species that came to us through the Botanical Gardens at Washington, D. C. The leaves are thick and leathery and are from 18 inches to 24 inches long, one-half as wide, of a rich, holly-green color, with midrib and veins of an ivory-white which stand out prominently.

6-inch pots, 24 inches tall, $3 each.

FICUS CRAIGII.

This variety is a greatly improved Ficus Elastica. It is close-jointed and the midrib stands out prominently, being ivory-white in color.

4-inch pots, 15 inches tall, $35 per 100.

6-inch pots, 18 in. to 24 in. tall, $6 and $9 per doz.

PANDANUS VEITCHII.

5-inch pots, $9 per doz.

6-inch pots, $12 per doz.

8-inch pots, $24 and $30 per doz.

PANDANUS UTILIS.

4 inch pots, strong plants, $25 per 100.

GARDENIA VEITCHII.

2½-inch pots, heavy, January delivery, $8 per 100; $75 per 1000.

4-inch pots, heavy, $20 per 100; $180 per 1000.

6-inch pots, heavy, $50 per 100.

6-inch pots, heavy, in bud, $9 and $12 per doz.

6-inch pots, heavy, in bud, will flower for Christmas, $2.50 each.

BERRIED ACCUBAS.

Beautiful plants, exceptionally well berried.

8-inch, 10-inch and 11-inch tubs. $2, $2.50, $3, $3.50, $4 and $5 each.

BOX WOOD.

Fall importations.

10-inch and 12-inch Bush form, $20 per 100.

12-inch Bush form, heavy, $30 per 100.

12-inch and 15-inch Bush form, heavy, $35 per 100.

15-inch Bush form, heavy, $40 per 100.

18-inch Bush form, heavy, $75 per 100.

24-inch Bush form, heavy, $18 per doz

Ball shapes, perfect globes, $1.50, $2 and $2.50 each.

Pyramids, 3 feet to 5 feet tall, $3, $3.50 and $4 each.

ABIES NORDMANNIANA.

7 inch and 8 inch, heavy, 75c., $1 and $1.25 each. Large tubs, $2.50 each.

NEPHROLEPIS TODEAOIDES.

London Fern. A good, strong grower.

2¼-inch pots, $5 per 100; $45 per 1000.

6-inch and 10-inch [illegible] $24, $30 and $36 per doz.

NEPHROLEPIS BOSTONIENSIS.

[illegible]

11-inch tubs, $2.50, $3 and $3.50 each.

NEPHROLEPIS ELEGANTISSIMA IMPROVED.

2¼-inch pots, $6 per 100; $50 per 1000.

[illegible] each.

NEPHROLEPIS SCHOLZELI.

This is an ideal crested fern, holding [illegible] varieties that the Scottii holds to the old Boston.

[illegible]

6-inch pots, heavy, $6 per doz.; $45 per 100.

8-inch, ¾-pots, $12 per doz.; $90 per 100.

11-inch tubs, $24 and $30 per doz.

NEPHROLEPIS SCOTTII.

[illegible]

4-inch pots, $20 per 100; $180 per 1000.

6-inch pots, $6 per doz.; $45 per 100.

8-inch, ¾-pots, $12 per doz.; $90 per 100.

11-inch tubs, $2, $2.50 and $3 each.

13-inch tubs, specimens, $4, $5 and $6 each

NEPHROLEPIS SMITHII.

It is a compact form, much finer than Amerpohlii and does not break down in the center. The fronds are carried on wiry stems Particularly showy for basket work.

2¼-inch pot, $10 per 100; $90 per 1000.

4-inch pots, $20 and $25 per 100.

6-inch pots, $6 per doz.

NEPHROLEPIS ROBUSTA (NEW).

The Silver Medal Fern at the National Flower Show, winning over all competition. We claim this variety to be the finest over all crested Nephrolepis, being exceptionally fine in large sizes. It never reverts and every plant is symmetrical and saleable in all sizes.

2¼-inch pots, strong plants, $20 per 100; $150 per 1000.

4-inch pots, strong plants, $50 per 100; $400 per 1000.

6 inch pots, strong plants, $75 per 100

A GRAND NEW DWARF FERN. "TEDDY JUNIOR."

A dwarf variety that will produce forty to fifty fronds twelve to fifteen inches long in a 4-inch pot. Fine young plants from 2¼-inch pots, $3 per doz.; $15 per 100; $140 per 1000.

TERMS: CASH WITH ORDER. Kindly send sufficient to cover the entire bill. We do not make shipments C. O. D. unless remittance has been made on account to guarantee acceptance. This does not apply to regular customers.

ROBERT CRAIG CO. 49th & Market Sts. Branch: Norwood, Pa. **PHILADELPHIA**

Forcing Shrubs and Plants

Azalea indica in variety. Azalea mollis in variety
Lilacs Roses

SHRUBS in variety

Spiræas Helleborus Lily=of=the=Valley

R. & J. FARQUHAR & CO.
BOSTON, MASS.

Lilium Maculatum
(Hansoni)

ONE of the finest Lilies for Garden Decoration or Cutting. A Most Satisfactory Lily for All Gardens. Color; rich orange spotted black. ¶ We have a fine stock of strong vigorous bulbs for immediate shipment. ***Special offer, $18.00 per 100.***

Mt. Desert Nurseries, BAR HARBOR, MAINE.

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per case of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

Not How Cheap But How Good

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

NEW WINTERFLOWERING SNAPDRAGON

In Two Distinct Colors. White and Yellow. Has Proved to be a Continuous Winter Bloomer for the last Ten Years.

Will be disseminated Next Spring by **Joseph Breck & Sons, Boston, Knight & Struck, New York** and by the originator

H. HUEBNER . Groton, Mass.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

J. M. Keller Co., Inc.

GROWERS

DECORATIVE PLANTS

OF HIGH QUALITY

Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 1850 Bedford BROOKLYN, N. Y.

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRA
NEW Y
BOTANIC
GARDE

Care of Cyclamens

No matter how fine the plants may be they will not sell without a flower being open, while ordinary ones with a few blooms open will soon be cleaned out. Every additional flower carried by a cyclamen tends to make it more saleable. Plants which have a number of well-developed buds not quite out should be put into a house of about 50 to 55 degrees at night, as near the glass as possible and in full sun. Grown thus they are stocky and the flowers will not fall over the pots, as they do when grown too far from the light. On benches raise the most forward plants on inverted pots and spread the others out. Remove all decaying foliage and weeds and scratch over any scumminess which may gather on the surface soil. Be very careful not to overlook proper watering. There is nothing worse as a dispoiler of their beauty than allowing them to dry out at the roots.

Decorative Greens

The profit to be made out of all such greens as boxwood, laurel, holly, bouquet green, leucothoe, galax, ferns, etc., depends on the shape these greens are in when wanted. To have them in a nice fresh condition try a deep cold frame banked around on all sides with leaves or hay of sufficient depth to make it practically frostproof. They should be covered with material of some sort to exclude the light. They keep well when given a dark, moist place that is kept just above the freezing point.

Flowering Plants for Christmas

The best paying business is done in medium-sized and moderate-priced single specimens. Give all flowering plants that show proper expansion of bloom cooler quarters. Hhey will finish up into fine shape and will handle better in every respect than if kept in strong heat up to the last. It will require at least five or six days in a lower temperature to bring them into anything like proper condition to stand the store or house. To harden them off they should not be kept any warmer than 55 degrees at night and 50 degrees would be still better. Do not overlook watering whenever they need it and space them far enough apart so the light and air will have a chance to circulate through them.

Oncidiums

As these orchids go out of flower they should have a good period of rest which will help to ensure a free, healthy growth later. Help out their resting period by giving them a night temperature of about 45 degrees with about 10 degrees higher during bright weather, through the winter months. Keep a drier atmosphere, but sufficient water should be used on walks and under benches for the prevention of a harsh dry air. They delight in a position where they can have abundance of light during the winter months. Where it is possible suspend them as near the glass as you can. Give just enough of water at the roots to keep them in a plump state. Ventilation should be given with intelligence so as not to cause any draughts or sudden falling or rising of the temperature. It is well to give these orchids a good cleaning and sponging about once a month to keep down insect life.

Winter Protection

The loss suffered by florists every year in stock usually styled hardy is enormous. Many good things can safely be brought through the severest of winters by proper protection. Insufficiently established or newly planted stock is lifted by the action of frost, and dries up. The alternate melting and freezing of snow, enveloping and but partly covering the plants causes much damage. Be sure to have the soil surrounding the roots of the plant in a moist condition. This holds good with the perennials and shrubs, particularly with the newly planted stock. Wait until the ground forms a hard crust before putting on any covering. Much of all the covering done every fall is put in place too early and removed too late in the spring.

Proctecting Pansies

All pansies that are in frames will need attention from now on. Give them plenty of ventilation whenever the weather becomes anyway warm so as to prevent their starting into growth. During spells of very hard weather they will need some protection to keep the frost from going in too far, as it only tends to heave the plants out some. Keeping them from any great extreme either above or below the freezing during the next two months will aid greatly in producing fine strong plants by next spring.

Mr. Farrell's next notes will be on the following: Calceolarias; Carnations; Marguerites; Pandanus Veitchii; Sowing Fern Spores; Protecting Outside Bulbs.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Making Peach Border

The construction of a border for the growing of peach or nectarine trees is very similar to that of the vine. It is equally essential that the roots be under absolute control, not only from the standpoint of feeding, but if allowed to roam too much they only make a quantity of worthless wood. As is well known, the new wood has the production of next year's crop and if this is not right the following crop will suffer in consequence. All that was written last week respecting drainage of a border can be applied to the peach border. One difference to be found between a vine border and a peach border is that the former is made up in sections, about every second year seeing an addition, while the latter is generally made up all together. The system of training usually adopted in America known as the "cross-trellis" makes this necesary. The trees could be allotted a very limited space and restrained in it, which would be equal to being planted in a box but this would entail a lot of work and also look unsightly unless a false top was put on the whole border and covered over with soil.

The greatest difference to be found in the two borders is the composition of the soil. A vine will stand the soil enriching while the peach is best grown in a poor soil for the reason previously stated—too much growth. Chop down the sod heap roughly, add some rough charcoal and also some broken bricks taken from the same material that forms the drainage. These should have been broken up into pieces about the size of a hen's egg or a little larger; this will keep the soil open at all times. Notice that nothing has been said about stimulants or additional food for the trees. Have the material thoroughly mixed just as you would if there were a dozen different ingredients before placing it in position. Just a word about mixing soils. It frequently happens that we have to mix several wagon loads of soil at a time, which is not like having a small pile on the potting shed bench but one that takes time and labor especially if the heap has to be turned twice. Some will say at once that it is impossible to "mix" a heap of soil by only turning it once. They may be right and they may be wrong; it all depends on the men who are using the shovels. If they have the right idea in their heads it can be mixed at one turning and being placed in the wheelbarrows. On the contrary if they pick up a shovel full from here and dump it down there in the same solid lump as it was when they picked it up very little mixing will be done, but, if that same shovelful and all the succeeding ones are taken up with the idea of mixing, and spread out as it leaves the shovel, by the time it reaches the border the ingredients will be mixed at a great saving of labor. Make the peach border quite firm. It should be harder than a vine border.

Tying Peach Trees

This job usually comes after all the other more or less laborious work and to the writer has many pleasant reflections. Not only is it the last of all the winter work [illegible] the weather can do just as it pleases (as it usually does) and there will be nothing to disturb the peace inside. The work is interesting to those who take an interest in their work. It is like constructing a giant fan. Lay all the heavy wood in first, placing it in position and then making it secure with strong string. A piece of old hose pipe is the best thing that can be put between the tree and the trellis to prevent gumming in the summer time. These trellises get very hot at times through the summer and injure the tree,—a fact that must never be lost sight of. No two branches should cross each other and the smaller wood should be laid in so that if each one was extended on, it would not cross its neighbor. The whole should be evenly distributed each having room to grow and develop its foliage. A point should be made to keep the center of the tree open; fill the sides in well and the center will always fill up. It may seem a waste of good trellis room to have this space left down the center but it is well for the future benefit of the tree.

Light

At this season of the year with the short and often dull days which have a very great effect on all plant growth we can never have too much light or sunshine in the houses. Do we avail ourselves of all that is to be got? If the glass is in any way dirty it will equal a light shade which must exclude some of the light and sunshine. This should not be if the plants are to get all that is coming to them. It would be a big job to clean off some of the large houses through the country but the larger the house the chances of "drawing" seem corresponding less. We usually make a practice of washing all fruit houses thoroughly inside but seldom do we hear of washing the glass on the outside. Take a house of melons, for instance, growing through the winter months. Suppose this to be near a chimney that is continually throwing out smut through burning of soft coal. Wash the glass off and it will surprise you what a quantity of light is being excluded through allowing this corrosive matter to remain. At this season it may not be easy to find a suitable day for the job but there is sure to be a time when it can be got in and it will pay for the doing.

Turnip Tops

Turnip tops are often used in lieu of seakale. Sometimes, I have been told, they are substituted without the knowledge of the diners and pass successfully without being detected. This course is not always necessary for many will relish them with a due knowledge of what they are eating. They are very easily raised. All that is necessary is good large turnips, a small space in the forcing house where the light is excluded and the roots can be kept moist and syringed occasionally. Failing a house of this description place them under a bench in a house having a temperature of about 55 to 60 at night and keep them from the light. See they are kept moist at the root and also that they are syringed at least twice a day. It is an easy matter to forget things in these places.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Xmas Retail Trade

On many rose-growing places there are prospects of a good retail trade which can be handled to good advantage by the growers. Have some nice cut flower boxes on hand as these appeal to the lady buyers, and do not make the mistake so often made, of wrapping the boxes on the outside with ordinary paper. This makes the cut flower box resemble a shoe box, which is not nice, and is no advertisement for the place and for the trade in general. As business will teach us, we must never lose an opportunity to advertise, even though it will not benefit us directly. If we can create a greater demand for flowers we should do so, for we shall be benefited by it in the long run. Do not try to ring in any inferior stock, as it will come back to you in the form of lost business in the future. Have all orders filled with the best possible stock, all fresh cut, that will give the buyers satisfaction. Where shipments are to go by express for any distance it is a wise plan to tie the roses to keep them from sliding around and breaking. Use good strong boxes so that there will be no danger of their being crushed, when the express companies pile other boxes on top of them. We have heard of one place that certainly had the goods, but, as one person remarked, their way of packing was so imperfect that it was useless to have anything shipped from there.

Greens With the Flowers

Always arrange the price of the flowers so that you will be paid for the green that you are asked to give with the cut roses. We find that people hate to pay extra for the greens, yet do not mind to pay a little more for the flowers themselves, if plenty of green is included in the price of the flowers. Try to have a good supply on hand at all times, as it is a great asset to retail trade. Plant all the nooks and corners where roses will not grow, and you are bound to have enough to last all through the season. It should be started as early in the summer as possible so that it will make plenty of growth before the cold weather sets in, after which it can just sit still, and be cut as needed. This will make very good green, too, for it will be much better than that which is not quite full grown. It is well to have a little of each asparagus, and some smilax. If you have the time and space put in a little of paper whites and other bulbs, the blooms of which will help very greatly to fill your retail orders, and can be used very nicely in making up designs.

Plants as a Side Line

Where the retail trade is handled at all, there is always an opportunity to sell a good many plants that can easily be grown in some of the cross houses that are hardly fit for anything else. It is surprising what a large number of different plants can be grown good enough to be sold, and at a good profit. Do not handle the very delicate plants as they will not prove satisfactory to the buyers who have a hot reading-room to keep them in. Better have only the plants that will stand all the misuse that they may be expected to encounter.

Care of Shaded Houses

Every now and then there will be a house on the place that is shaded by some other house, and necessarily will require a little different treatment than the other houses are receiving. The main thing will be proper watering, for the house will not dry out as well as the other houses, and will therefore take less water, and more carefully applied. Such houses should receive much less soil than any of the others, for if the benches are filled up full of soil, more trouble will be on hand. Syringe such a house the first thing, so that it will be drying off when the other houses are being syringed. Before watering make sure of the condition of the soil before you apply any quantity of the water. At times the soil will appear a little dry at the surface, where it will be real wet down in the bottom. At times it is just the reverse, and the soil will be real dry in the bottom of the bench, while the surface will seem quite wet. Do not let the soil get sour before you apply lime to the benches, for in a house that is shaded the soil will turn sour very easily, as the purifying rays of the sun will not reach it enough to help keep it in good shape.

Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

The Inventory

The new year will soon be here, and with it will come more problems. Although the books on a rose-growing place will close in July, still there is nothing better than to make an inventory on the first of the year, and if one had been made the year previous, you can soon tell where this and that went, or at least know that it is missing. On a place where the inventory was a mystery, it was made when a new manager blew in, and the men who had always worked on the place were very much surprised at the amount of junk that had been lying around, and was never of any use. This was cleaned out, and at once the place looked more prosperous, as compared to the tumble down place that it appeared to be only a little time before. Get at it and make an inventory, and find out just what is there and what is not.

HORTICULTURE

VOL. XVIII DECEMBER 13, 1913 NO 24

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A White House Bridal Basket.

NOTES ON CULTURE OF FLORISTS' STOCK—Care of Cyclamens—Decorative Greens—Flowering Plants for Christmas—Oncidiums—Winter Protection—Protecting Pansies—*John J. M. Farrell*..... 805

FRUITS AND VEGETABLES UNDER GLASS—Making Peach Border—Tying Peach Trees—Light—Turnip Tops—*George H. Penson*..... 806

ROSE GROWING UNDER GLASS—The Xmas Retail Trade—Greens With the Flowers—Plants as a Side Line—Care of Shaded Houses—Soot—The Inventory—*Arthur C. Ruzicka*..... 807

AFFILIATION ONCE MORE—*A. Farenwald*..... 809

POINTING THE WAY—A Greeting—*George C. Watson*..... 809

OUR COVER ILLUSTRATION..... 809

DESCRIPTION OF 1914 CHRYSANTHEMUM NOVELTIES—*Charles H. Totty*, Illustration..... 810

BRITISH HORTICULTURE—*W. H. Adsett*..... 811

THE LATE WYMAN ELLIOT—*C. S. Harrison*..... 811

CLUBS AND SOCIETIES—Pittsburgh Florists' and Gardeners' Club—Western New York Horticultural Society—New York Florists' Club; Wm. H. Duckham, portrait—Newport Horticultural Society—Minnesota State Florists' Association..... 812

Society of American Florists—Chrysanthemum Society of America—Lenox Horticultural Society—Club and Society Notes—Portland Flower Show; Illustration..... 813

HORTICULTURAL WHYS AND WHEREFORES—*Edwin Jenkins*..... 814

TWO USEFUL GARDEN PERENNIALS; Illustrated.. 817

CHRYSANTHEMUMS—*C. A. Johnson*..... 817

SEED TRADE..... 829

OF INTEREST TO RETAIL FLORISTS—New Flower Stores—Steamer Departures..... 830

Flowers by Telegraph..... 833

Successful Advertising of a Retail Florist—*Max Schling*..... 834

A Benediction—*G. C. W.*..... 835

A Model Flower Store; Illustrated..... 836

OBITUARY—Francis Goble, Mrs. F. Warendorf..... 835

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati, St. Louis..... 843

New York, Philadelphia..... 845

MISCELLANEOUS:

Boston Horticultural Hall Notes..... 811

New Corporations—A Fabrication..... 811

View in Fall Show at Minneapolis Park Conservatories; Illustration..... 815

Plant Houses of A. M. Davenport, Watertown, Mass., Illustration..... 818

Walter Mott's Notes by the Way..... 820

Regulations Governing Plant Importations..... 821

Washington Notes..... 821

Chicago Notes..... 822

Hearing on Potato Quarantine..... 829

A New Method of Sub-irrigation and Drainage..... 829

St. Louis Notes..... 833

News Notes..... 837

Personal..... 840-845

Greenhouses Building or Contemplated..... 851

Report of the Secretary of Agriculture for 1913..... 852

Business Troubles..... 852

Our birthday

With this issue HORTICULTURE passes another milestone. Already nine years of age, it is no longer "the new paper" but begins to feel the dignity of maturity, as papers go. That HORTICULTURE has, during its nine years of existence, exercised an influence for good in the profession and industries it was created to serve and has creditably fulfilled its mission thus far, will hardly be questioned even by those whose desire for its success might fairly be represented by the zero mark. We cannot let this occasion pass without giving public expression of our gratitude to the hundreds of advertisers who have shown their faith in HORTICULTURE by their generous support and the thousands of subscribers whose unflagging interest in its reading columns and whose unmistakable approval of its principles and policy have touched us as one of the highest honors that could possibly be bestowed. HORTICULTURE has much to be thankful for, but first and best of all are the steadfast friends, far and near, who have done so much to make these nine busy years nine very happy years for the editor.

The holiday trade

The great closing holiday of the year approaches. Just what it may turn out to be in a business way for those of our readers to whom it means the most no one can predict, as so much depends upon weather conditions, both in the production and in the sale of the goods prepared for the occasion. Still, the inclement weather has now lost much of its terrors for the retail plant and flower dealer with the modern conveniences of telephones, autos and "telegraph delivery" and only conditions of unusual severity can prevent those who so desire from ordering flowers without discomfort and having them delivered when and where they please. We would urge those in the trade who read these lines, and who we must presume are all well-wishers of HORTICULTURE, that they carefully scan the advertisements in this number and give their business, as far as possible, to those firms who are herein represented. There are none better to be found. Most of them are well-known and their name and record is the best guarantee of their reliability and the quality of the goods they offer. Make them your first choice and let us all—advertisers, readers and HORTICULTURE—have a merry Christmas together.

In union there is strength

Our irrepressible friend from Roslyn, Pa., bobs up again this week with a reminder that, so far as he is concerned, "affiliation" is not to be permitted to go to sleep. Mr. Farenwald, we believe, is on the right track with his pet project. The discussion of affiliation between the various societies, clubs and associations is but the working out of one phase in the gradual development of the co-operative movement which has taken so strong a hold in and between all departments of business in recent years. Co-operation between growers, manufacturers, jobbers, wholesalers, retailers, advertisers, trade paper publishers, and all other interests which exist and prosper under the broad mantle of horticulture, and between the many allied organizations, means much greater efficiency for all. These agitations which are constantly being generated, on the principle of the ultimate betterment of all, through the help of each, mean much more than appears incidentally on the surface. They indicate, more or less clearly, a strong trend of sentiment in the direction of wider usefulness, and a higher standing for horticulture than ever before attained, through the great vitalizing force of well-ordered union. Realizing this, HORTICULTURE upholds and applauds Mr. Farenwald and any and all others who are acting to the same end, inspired by the same desire for the general welfare.

Affiliation Once More

It is quite a little while since I saw my name in print, so I am rushing in again. I am still doing business on the same old stand, Affiliation. I am going to keep after you, my brother florists, till you give up in despair and give it a trial. "Darn that little Dutchman! I will give him a chance. I am going to vote for Affiliation of our Club next January or February and see what comes of it. I see that he don't seem to want to give in and we may make him take his own medicine and then he may choke on it." Of course here is rather rough sentiment, brother, but I am willing to take a chance. Let's try it!

If you have read my paper on Affiliation last August you must remember that I called on all Florists' Clubs to bring this matter up in their January meeting for discussion and a vote on it in February meeting. Now, brother florist, have you provided for it? If you have not, call up the secretary of your Club and express your wish that it should be done. Have all members informed what is going to be the topic. If you have nobody in your Club who cares to champion this cause, have my convention essay of August read and discussed; it will give you the main points clearly stated. You may have read it and put it aside with not another thought, but here is a chance to put the searchlight of discussion on it. Pull it to pieces, get at the bottom of it, and then the truth—the need of Affiliation—will creep into your brain and then into your heart.

We who are taking from the storehouse of ages owe again something to future ages, so let us build up. The call is upon us to do something greater and better than has ever been done in our profession. Don't let us miss it. Get ready. August will soon be here, with it the Boston Convention. The Board of Directors of our National Society declared themselves in favor of Affiliation at Minneapolis. They will bring it before you in proper form for discussion and vote.

Brother florist, this is the biggest advance ever brought before the Convention since its birth. Will you be ready for it? I think you will! I hope to see at least a dozen clubs show their intentions to join the mother society before August. Of course, the more, the better. We should make our petition so strong that the Convention will ratify it with a rush. So let us get together and do something. We have been talking Affiliation for many years. We know all about the good results it had in other professions. It will do the same for us. Do your duty, brother.

A. Farmerald

Pointing The Way

A Christmas greeting from Philadelphia is in order to the readers of HORTICULTURE. We hope you have all had as good a year as we have down here. Business has been good and nearly everybody has prospered. From what we hear, the same conditions prevail in other parts of the country. We extend our congratulations to one and all.

We also wish to put forth a word of prophetic good cheer. A country that is growing at the rate of at least a million a year need be in no fear of business stagnation. We may have gluts here and there due to lack of facilities in distribution—and that is defective management and not *inherent*. We will find a way out—as grow we must—just so long as these United States continue to grow.

Let one go around and talk to the eagle-eyed captains of industry like the Hendersons, the Farquhars, the Dreers, and he will quickly become imbued with the fact that horticulture in America is but in its swaddling clothes. All the progressive houses are up against more business, better business—the public taste is improving; wealth is increasing. If there be faint hearts among us it must be from lack of energy and enterprise.

The writer has traveled thousands of miles during the past two months and interviewed many of the leaders and not one single doleful note has he heard anywhere but all look forward to even bigger and better times in 1914.

So we say to all—be of good cheer! Gird up your loins and get busy.

G. Wharton

Our Cover Illustration

The lovely floral basket, a picture of which forms the central feature of our front cover page in this issue, was a wedding gift from the National Association of Gardners to Miss Jessie Wilson. It was arranged by Gude Bros., of Mrs. George Shawyer roses furnished by Chas. H. Totty, and a cluster of cattleyas, vandas and cypripediums on the handle.

As an Advertising Medium Horticulture has NO superior.

Because they ALL read it. And they read it ALL.

CHRYSANTHEMUM NOVELTIES FOR 1914

By CHAS. H. TOTTY.



JAMES FRASER



MRS. R. H. BOGGS



WILLIAM VERT

MEUDON. An immense flower of bright pink. Won first for seedling pink at the Chicago exhibition, and also the Sweepstakes Medal for the best seedling on exhibition. It is a particularly strong grower and carries the foliage right up to the flower on an ideal stiff stem.

JAMES FRASER is an improved F. S. Vallis, with the exception that the color is deeper, but the flower is equally as large and practically the same shape, and the stem is perfectly stiff and the foliage is carried well up to the flower. The weakness in Vallis is in its stem, but in Fraser we have overcome that weakness and we feel sure it will be a very prominent variety in the exhibitions of the future.

MRS. R. H. BOGGS. One of the largest whites we have ever seen and the easiest to grow. When first opening the petals are delicately flushed with pink, but by the time the flower is fully developed it has faded to white.

MRS. PAUL MOORE. A beautiful variety with commercial possibilities as well as being a splendid exhibition sort. Has been certificated both as a commercial as well as an exhibition variety. Color is pure scarlet.

The Pockett varieties in crimson have been for years the leading exhibition sorts, the most notable example, of course, being Pockett's Crimson. In Wm. Vert we have the same blood and Mr. Wells says this new variety will eventually be "the" crimson, because everybody can grow it, it is such an easy doer.

MRS. ERNEST WILD. A chestnut crimson with a bronze reverse. This was one of the varieties certificated by the C. S. A. The foliage droops down to the stem and permits of the variety being planted very much closer than the average. It is by far the largest thing in its color, coming into bloom so early as October 1st.

The greatest advance this year in chrysanthemums is shown in the new singles. Gladys Duckham, which is shown disbudded, produced flowers more than 6 inches across. Phyllis Bryant, makes a wonderful plant in a 4-inch pot. The variety Gladys Duckham is white, and Phyllis Bryant sulphur yellow. They are both beautiful 'mums.

Another wonderful single variety is Golden Mensa. Its parent Mensa has made its own record as the best white single ever raised or cultivated. The golden variety is an exact duplicate of Mensa in every way except color, which is a pure golden yellow. This Golden Mensa should not be confused with Miss Lou Thompson which is also a yellow, but very pale color, not nearly so deep as Golden Mensa.

The gem of the collection, however,



GLADYS DUCKHAM



PETITE LOUIS



R. R. BURGE

is R. B. Burge, which is a flower of the purest possible white with a bright yellow center—a magnificent contrast. The flower reminds one of a white Japanese anemone or water lily.

The early flowering varieties were wonderfully fine this year in all sections of the country, and these illustrated are very good, though one could illustrate fifty kinds or more that would be just as good. Petite Louis, which was certificated at three or four club meetings during the month of October, will, if disbudded, produce a flower equally as large as a mid-season variety grown under glass. The color is a lovely shade of pink.

The Cranford varieties, in pink, white and yellow, while not, strictly speaking, new, have never really come into their own before. Grown out in the open ground they have, this year, made more money for us than any other variety we had on the place.

BRITISH HORTICULTURE.

A New Fertilizer.

In horticultural circles a keen interest has been aroused in a new process of soil fertilization discovered by Professor Bottomley, a well-known London scientist. The new process consists of peat which has been sterilized and then inoculated with nitrogen-fixing organisms. At Eton plots dressed with this prepared peat at the rate of one and one-fifth of a ton per acre, compared with plots which had received farm-yard manure at the rate of 80 tons per acre, showed an increase in lettuce of 27 per cent. and potatoes 41 per cent. At Chelsea the increase in radishes amounted to 54 per cent. Some interesting details of the experiments made at Kew and elsewhere were recently given by Professor Bottomley at a meeting of the Horticultural Club in London.

Experiments on Sterilizing Soil.

For some time some instructive experiments in the sterilizing of soil have been in progress in some market nurseries in the Lea Valley, near London. The soil is subjected to a steaming process; when this is efficiently done it has proved to be a success. Three partial failures have been traced to the growers using too small a box and too high a steam pressure. Another mistake made has been in sterilizing the tomato soils too deeply. The ideal depth is stated to be from six to eight inches. It has been demonstrated that a sterilized soil liberates plant food, and by cleaning the soil a more robust root system is developed.

W. H. ADSETT.

One of the most beautiful supplement plates ever sent out by The Gardeners' Chronicle, accompanied a recent issue of that journal—a picture in natural colors of Berberis Wilsonæ, one of the newer barberries from China, discovered by E. H. Wilson and chosen by him from among many as worthy to be named after his wife. The short-peduncled fruit crowds the young twigs in close clusters in great profusion, after the manner of Ilex verticillata, the branches arching gracefully under their weight of scarlet berries. It is a beautiful shrub and entirely hardy.

THE LATE WYMAN ELLIOT.

C. S. Harrison's Tribute.

The poet says:

"If a star were quenched on high
For ages, would the light,
Still traveling from the sky,
Shine on our mortal sight.
So when a good man dies
For years beyond our ken
The light he leaves behind him lies
Along the paths of men."

Goodness, nobility and sacrifice never die. They are woven into the woof of humanity to beautify and strengthen. They are the leaven which stirs our inertia and gives life to the masses.

Floriculture and horticulture have a marvelous transforming power. With the progress of the age these two callings lead the advance. A hundred years ago but little attention was paid to flowers. Now you see acres of greenhouses and thousands of dollars' worth of flowers at a single funeral. The beauty of the Lord enters in and transforms the souls of men. It has been my pleasure to meet some of the world's nobles. I visited Thomas Meehan, then an old man waiting by the river. He was a gentleman in the highest sense. Gentleness and light seemed to illumine his soul.

I spent a night with Samuel Parsons, author of the book on the rose. He was a friend of Whittier. He compelled me to go from the hotel at Flushing, L. I., to his beautiful home. What a visit we had. He picked out the gems of Whittier and read a new meaning into them. The influence of the flowers he loved radiated from his soul.

Another was T. C. Thurlow. How he loved his flowers. Their sweetness and fragrance illuminated his very life. We first got acquainted through correspondence. When I went east he insisted that I should make his house my home. We were of the same age. His home was in a field elysian. His children were brought up in a garden of delight. He was the father of the peony business in America and wrote the first article calling the attention of the public to those glorious flowers. No man had a greater influence on my life. He opened new vistas before me and showed possibilities I never dreamed of. He led me to the margin of a vast empire in which I have wandered ever since.

And here is brother Elliot. His beloved state never can forget him. How faithful he was to this society (Minnesota Horticultural Society) and its interests. We mourn, not simply the loss of a friend but a father. He was one of the charter members of this society. No man could do more for it. At the state fair and other exhibits he went far beyond his strength. We saw him wearied and worn and wondered how long he could sustain this strain. Doubtless it shortened his life. We honor him as a soldier of peace—not of war. He left no track of ruin behind him. The path along which he went is bordered with fruit trees bending with their luscious burdens. It is margined with bloom. A peaceful sky is over all. He died among his flowers. He was saved a long and lingering illness, too often the heritage of old age. He was speedily translated from his own charming grounds to the land where "Everlasting spring abides, and never-withering flowers."

How glad we are that he lived and that his life has been a benediction to his state and to this society. We have all been greatly honored in our membership. The world never has seen a finer exhibition of supreme devotion to the highest ideals.

Of our departed brother I can but say:

"And I am glad that he has lived thus long,
And glad that he has gone to his reward;
Nor deem that kindly nature did him wrong,
Softly to disengage the vital cord.
When his weak hand grew palsied and his eye,
Dark with the mists of age, it was his time to die."

BOSTON HORTICULTURAL HALL NOTES.

On Saturday, December 6, William Thatcher, gardener to Mrs. John L. Gardner, Brookline, made a special exhibit at Horticultural Hall, of Apbelandra aurantiaca Roezlii, a plant seldom seen hereabouts. It was awarded honorable mention. He also showed a number of orchids in fine flower, among them Cattleya Percivaliana and Dendrobium superbiens which were awarded first class certificates.

The money awards for prizes and gratuities for the year, amounting to $6,700, are now being paid.

A white sport of the Dr. Enguehard chrysanthemum from W. A. Weeks of Baker, Oregon, was sent in this week for examination by the Plant and Flower Committee and was favorably considered. A suitable recognition will be made pending further information regarding it.

The landscape gardening class at the hall on Monday evenings, under the management of the Gardeners' and Florists' Club, is very successful this year. The interest in it suggests that the Massachusetts Horticultural Society might well undertake some educational work of a practical nature in other lines of horticulture.

A FABRICATION.

A rather sensational account has been going the rounds of the daily newspapers concerning the object and the results of Mr. Farquhar's recent visit to Europe. The facts were simply as stated in the last issue of Horticulture. The sum mentioned in the papers as having been paid for the Veitch lilacs was a preposterous exaggeration of which Mr. Farquhar declares he had no knowledge until he saw it in print and for which together with other unfounded statements the newspaper correspondent seems to have been alone responsible.

On Dec. 1 the florists of the Twin Cities attended a banquet to Mr. and Mrs. Theo. Wirth on his fiftieth birthday and presented him with a large hall clock as an appreciation for his work for and during the convention. It was attended by about 140 florists and their wives and was an enjoyable affair.

CLUBS AND SOCIETIES

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The club met on the evening of December 2 in the Fort Pitt Hotel, Pittsburgh. It was expected that Mr. E. G. Hill of Richmond, Ind., would be present and speak on his specialties, the chrysanthemum and the rose, but at the last moment word was received that owing to other engagements he would be unable to meet with us.

However, the club had a very pleasant and profitable evening, there being a variety of exhibits of a high order of merit.

Awards: Bureau of Parks, for cypripediums and begonias a cultural certificate; Walter James, Homewood, a cultural certificate for begonias Cincinnati and Turnford Hall; T. J. Malcolmson, Sewickley, for group of crotons, a certificate of merit; Carl Becherer, Dixmont, mention for new hydrangea Montrose; Elliott Nursery Co., Springdale, special mention for collection of hardy shrubs and grasses; S. S. Skidelsky & Co., shipped by Michigan Cut Flower Exchange from Detroit, Mich., carnation Philadelphia, a first-class certificate.

The secretary read a letter from President-elect Wirth of the S. A. F., asking for the names of persons considered eligible for the position of State vice-presidents, and the club unanimously recommended W. A. Clarke, of the Pittsburgh Cut Flower Co., for the position.

The representative of the Elliott Nursery Co. spoke strongly in favor of the use of the proper botanical names in sending orders for plants and shrubs to nurserymen, instead of the common names, which vary locally in the different parts of the United States, and which causes much confusion.

H. P. Joslin, Secretary.

WESTERN NEW YORK HORTICULTURAL SOCIETY.

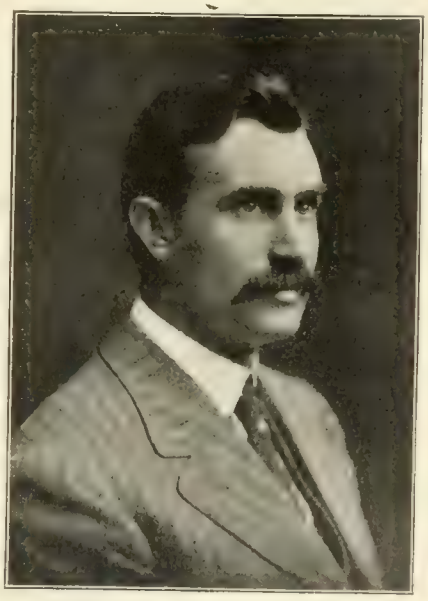
January is the fruit growers' month in New York State, and Rochester is their Mecca. For fifty-nine years the Western New York Horticultural Society has held its meetings, and the fruit-growing industry owes very much to the splendid accomplishments of this organization, which is both the oldest and largest association of fruit growers in the Empire State. The gathering of January 28th, 29th and 30th will be a memorable one, the program containing several attractive features. Among the out-of-state speakers will be the always-welcome Professor S. A. Beach, of the Iowa College of Agriculture; Dr. Lipman, director New Jersey Agriculture College Experiment Station; a Michigan peach-grower, etc.

A large aggregation of spray rigs, etc., is already arranged for. Liberal prizes are offered in the competitive class for fruits, such as a solid silver cup, several large cash prizes for boxed fruits and collections, and the usual cash prizes for single plates. Those wishing further information regarding the fruit entries should at once communicate with John Hall, secretary-treasurer, 204 Granite Building, Rochester, N. Y., also for copies of program when ready.

NEW YORK FLORISTS' CLUB.

The December meeting, on Monday evening last, was an unusually large one, there being about 150 members and others present. Election of officers was one of the important items in the order of business. It had been generally understood that Mr. Bunyard was going to withdraw from the field as a nominee for president, thus leaving Mr. Duckham as the sole candidate, but he did not do so. The election resulted as follows: President, William H. Duckham (by 60 to 42); vice-president, Henry Weston; secretary, John Young (re-elected); treasurer, W. C. Rickards (re-elected); trustees for two years, Jos. A. Manda, Chas. H. Totty, F. H. Traendly.

Brief addresses were made by the candidates elected. Two applicants were elected to membership and there



William H. Duckham.

were five proposals. William Kleinheinz, Paul Huebner and Robert Pyle were present from Philadelphia. Edward Sceery, of Paterson, N. J., who had been a member for twenty years, made his first appearance and was introduced to the members and made a most interesting speech, saying that the reason he was there now, willing to take up the work which he had neglected so long, was on account of the recent National Flower Show, held in New York, which had caused such widespread interest among the retail florists of the country.

Max Schling made a delightful address on "Modern Advertising," and the secretary was instructed to write him the thanks of the club and appreciation of his remarks as to what the New York Florists' Club was doing for the retail florists of the country. There is no question but what Mr. Schling's address made a big hit. While some of his ideas may not meet with the approval of everyone, they are, nevertheless, very interesting and certainly very sincere. Owing to the lateness of the hour, Mr. L. W. C. Tuthill's paper on "Advertising, the Gasolene of Business," was postponed to the January meeting.

The new rose Hadley was exhibited by A. N. Pierson, Inc., and scored 89 points and received a preliminary certificate. S. J. Reuter & Son, Inc., exhibited the new rose Prince E. C. de Arenberg, which scored 85 points, receiving a preliminary certificate. The same firm exhibited the new rose Lady Ann Borrdsell, which scored 82 points. The Michigan Cut Flower Co. exhibited a vase of the new carnation Philadelphia. This shipment did not arrive in the best of condition and the committee requested to see it again. Philip F. Kessler exhibited four vases of orchid-flowering sweet peas, receiving a vote of thanks for same.

Wallace R. Pierson addressed the meeting in behalf of the American Rose Society, stating that that Society had agreed to co-operate and make their exhibition at the coming Spring Exhibition in New York, and urging all growers to put their shoulder to the wheel and make this the grandest exhibition of roses made in this country. He had already received the promise of large exhibitors from the west and middle west.

NEWPORT HORTICULTURAL SOCIETY.

The annual meeting of this Society was held on the evening of December 9, with a very good attendance of members. The following officers were elected: President, William MacKay; first vice-president, John B. Urquhart; second vice-president, James Bond; treasurer, A. K. McMahon; recording and financial secretary, William Gray; sergeant-at-arms, William F. Smith; executive committee, Andrew S. Meikle, Richard Gardner, Alexander MacLellan, Bruce Butterton, Samuel Speers, John T. Allan, Alexander Fraser, C. M. Bugholt and James Robertson; auditing committee, Herbert Bliss, Bruce Butterton and W. S. Sisson.

The pleasant features of the meeting was the harmony among the members and the very satisfactory reports of the officers covering the work of the year, the treasurer's statement showing a much larger cash balance than the Society ever had before.

A rising vote of thanks was given Andrew S. Meikle, the retiring president, for his very efficient work during the three years he filled the office.

J. Robertson.

MINNESOTA STATE FLORISTS' ASSOCIATION.

At the recent meeting of this association there was a fine exhibition of chrysanthemums and awards were made as follows:

LaCrosse Floral Co., diploma; L. S. Donaldson Greenhouses, diploma; Minneapolis Floral Co., certificate of merit for chrysanthemums, also for carnations; Woodend Farm, certificate of merit; Holm & Olson, certificate of merit; Minneapolis Park Greenhouses certificate of merit.

Gust. Malmquist, Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

F. H. De Witt & Company, of Wooster, Ohio, submit for registration the Geranium (Zonal Pelargonium) described below; also Pelargonium hereunder described. Any person objecting to the registration or to the use of the proposed names, is requested to communicate with the Secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Name of Geranium—"John G. Meyer."

Description—A cross between L'Aube and Jean Oberle. The trusses of bloom are very large. It is a semi-double, pure white with any trace of color. Small foliage. Both habit and foliage like its parent, Jean Oberle.

Name of Pelargonium—"Eastern Star."

Description—A cross between Easter Greeting and Graf Zeppelin. Ground color, wild rose pink, with five large reddish brown spots, edges scarlet lake. This variety is somewhat remontant. It is a dwarf compact grower and quite free in bloom.

Public notice is hereby given that as no objection has been received or filed to the registration of the Cannas Jessica, Benivolio, Horatio, Lafew, Gonzabo, Mercutio, by R. Vincent, Jr., & Sons Co., White Marsh, Md., same becomes complete.

No objection being filed to the registration of the Cannas Mrs. Woodrow Wilson, Golden Gate, Wintzer's Colossal, Jane Addams, San Diego, by The Conard & Jones Co., West Grove, Pa., same becomes complete.

No objection being filed to the registration of the rose "Hadley" by the Montgomery Company, Inc., Hadley, Mass., same becomes complete.

JOHN YOUNG, Secretary.

Dec. 8, 1913.

CHRYSANTHEMUM SOCIETY OF AMERICA.

A. N. Pierson, Inc., Cromwell, Conn., registers the following varieties of chrysanthemums with the Chrysanthemum Society of America.

Golden Climax. Seedling of C. W. Johnson's. Pure golden yellow, perfect color. Full double, true Pompon type; 1½-1¾ inches in diameter. At its best first week in November. Makes a fine spray without disbudding. Medium height, stiff stem, good foliage. Shown in collection winning Hitchings cup, New York, 1912, and in winning collection, Chicago, 1913. Winner as Best Vase of Yellow Pompons and variety, Chicago, 1913.

Western Beauty. Seedling of C. W. Johnson's. Silvery pink, full double; 2¼-2½ inches in diameter; wide petals a little more loosely arranged than the type. Naturally throws a perfect spray. Tall erect grower, stiff stems, foliage good. Season second week November. Best of its season and color for commercial cutting. Shown in winning collection, Chicago, 1913. Especially brilliant under artificial light.

Golden Harvest. Seedling of C. W. Johnson's. Bronze, tipped and brightened by golden yellow; very bright attractive color. True Pompon type, 1½ to 1¾ inches in diameter. Medium height, throws good sprays for cutting. Stems stiff, season first week in November. In the winning collection, New York, 1912, and Chicago, 1913.

Golden West. Seedling of C. W. Johnson's. Golden yellow of the small button Pompon type, very compact. Unusually good keeper. Flower 1-1¼ inches in diameter; dwarf stiff stem. A striking flower, perfect for pot culture and should be received with as much favor as the old variety Baby; more dwarf and compact than the latter. In the winning collection, Chicago, 1913.

CHAS. W. JOHNSON, Sec.

LENOX HORTICULTURAL SOCIETY.

The annual meeting of the above society was held in the Town Hall Dec. 6. The treasurer's report showed the society to be in a sound financial position. The following officers were elected: President, A. McConnachie; vice-president, Frank Butler; treasurer, A. J. Loveless; secretary, G. H. Instone; assistant secretary, J. Mair. A. H. Wingett was again elected as delegate to the State Board of Agriculture. A. H. Wingett, Mr. Loveless and M. Instone were appointed as committee to draw up a report of the society's transactions for the past year to be submitted to the State Board of Agriculture. F. Heeremans, E. Jenkins and Frank Butler were appointed as lecture committee. Various other committees were appointed and it was agreed to change the annual meeting from December to November. It was decided that the society hold its annual ball some time in January as usual.

JOHN MAIR, Asst. Sec.

PORTLAND FLOWER SHOW.



Photo by G. S. Crego

One of the prize winning decorated tables shown by Clarke Bros.

CLUB AND SOCIETY NOTES.

Thomas Roland wishes it understood that his nomination for the office of president of the Gardeners' and Florists' Club of Boston was without his knowledge or consent and that he is not a candidate.

The Houston (Tex.) Florists and Nurserymen met on November 22, and perfected their organization. Officers were elected as follows: H. H. Kuhlman, president; Robert C. Kerr, vice-president; S. J. Mitchell, secretary, and George M. Cosh, treasurer. The following executive committee was elected to serve in connection with the president as chairman: John J. Boyle, C. L. Brock, I. M. Johnson and C. H. Blecker.

The Minnesota State florists had charge of the evening meeting of the Minnesota State Horticultural Society, which held its annual meeting in Minneapolis Dec. 2 to 5 inclusive. Aug. S. Swanson read a paper, "Flowers for Everybody's Garden," Mr. Farrar read a paper on Sweet Peas and Mr. Reid gave an illustrated lecture on "Rural Landscape Gardening." Premiums were awarded as follows:

L. S. Donaldson Co., first, on palms, ferns and blooming plants; Minneapolis Floral Co., second; Merriam Park Floral Co., third. For roses, Minneapolis Floral Co. received first and Riverside greenhouses second.

HORTICULTURAL WHYS AND WHEREFORES

By Edwin Jenkins, before the North Shore (Mass.) Horticultural Society, Dec. 5, 1913.

"Every why hath a wherefore." Shakespeare.

Mr. President and Members. My plea this evening is for thought, meditation and observation, a plea to everyone to try and satisfy himself with the reason for his every act connected with his work. Many men who dwell within the ranks of horticulture go through life without knowing, or caring very much to know, why they do many (even of) the simplest of every-day operations. That some of these men are quite successful growers I am willing to concede, but I think you will all agree with me when I affirm that did they but add some deep and correct reasoning to their practice they would be still better cultivators, broader men and more likely to earn the respect of their employers and their associates.

In the development of my topic I have asked some questions and I have answered them to the best of my knowledge, but with all humility, realizing that there is more than one side to most questions and that the other side may be more nearly the correct one than the one advanced by the speaker. Here and there, I may ask a question but attempt no answer, trusting to learn from you, or, at the very least, to set some one thinking. Some may regard my "Whys" as trivial, but to those I would say, Remember that this is a plea for thought regarding the simplest actions and operations, with the idea of forming such a habit of mind that we shall be everlastingly questioning; believing that such a habit of mind, once developed would not only result in better and more intelligent work but would lend an added interest to our occupation, making work a greater pleasure, thus benefiting alike the worker and his employer.

Why Water Plants?

Let us commence with one of the simplest kind of questions—Why do we water plants? Because they need water or moisture you will say, and this is perfectly true, but does that tell it all? Is there not something deeper that the man with the watering can or the hose should have a thorough grip upon before he can water with brains as well as water? Should he not realize that the roots of all plants are of the nature of a sponge and can take up no food whatsoever except that which is held in solution in water? He should understand that before the plant reaches the dust-dry stage the roots have ceased to take up water, because the soil particles have the power of withholding from three to ten per cent of water from the plant and therefore that amount of water may as well be non-existent as far as the plant is concerned. He should know that the vital actions of the roots cease near the freezing point, hence the necessity of shading frozen plants, as they will perish of starvation should the sun or a drying wind have free access to them during the time the roots are inactive through low temperature. He should further realize that among the other evils of letting plants get too dry is the production of cracks in the soil, as this cracking will break many of the fine root-hairs which are the feeders and needless to say will give a severe check to the pant. And so this very subject of watering might be enlarged upon as to fill a volume, but enough.

Why Ventilate Greenhouses?

Why do we ventilate the greenhouses? First, to regulate the temperature, and secondly but no less importantly to set the air in motion. This motion of the air has an invigorating, stimulating, life-giving effect upon plants as it has on animals. Heretofore we have been taught that air that has been used was to some extent chemically impure and therefore injurious to plants and animals, but the latest and best scientific information assures us that it is largely a matter of cooling and setting the air in motion. This being the case, there are times when we might regulate the temperature of a greenhouse without the use of the ventilators, yet for the well-being of the plants it is desirable to operate the ventilators and keep the temperature to its proper level of fire heat.

Why Damp Down?

Why do we wet the greenhouse walks and floors, or, in regular greenhouse parlance "why do we damp down?" Not to keep down red-spider, I hope, nor because we were told or made to do it during the days of our apprenticeship. There is sound good reason for damping down such houses as are occupied by plants whose native habitat is the shaded, humid, tropical forest because we must supply the heat they require artificially and as this is usually of such amount that the air becomes too dry so we must likewise supply humidity by artificial means. But because this is true of some plants and some greenhouses it does not follow that damping down is desirable in all greenhouses; far from it. It may be stated as a general proposition that rose, carnation and chrysanthemum houses are sufficiently supplied with atmospheric moisture by the regular waterings and syringings; in fact, we should be very glad of some means of drying the air to some extent at times. Diseases of tomatoes grown inside as well as all the various fungous diseases which affect other plants are easier held in check in a fairly dry atmosphere than in one reeking with moisture. Damping is generally overdone. Exception might be taken to the above statements about not damping rose, chrysanthemum and carnation houses and this applies to very hot, dry days; on such days damping has a very beneficial effect, first by cooling the air, which cooling is almost independent of the temperature of the water used for damping as it is the work done by turning the liquid into a gas which absorbs the heat of the atmosphere, another beneficial effect of damping the houses on extremely hot days being that by moistening the atmosphere we cut down the transpiration of water by the leaves, and transpiration goes on more rapidly at such times than the roots can supply, which causes wilting and sometimes burning, though the plants be ever so wet at the root.

Why Certain "Aspects?"

Why is it important to give a certain aspect to a greenhouse and the correct pitch to the roof? I introduce this subject because it seems to me highly important that every gardener should have this well fixed in his mind as he may be called upon any time to select a site for a greenhouse, and should he make any great error in this selection and the greenhouse be built, nothing but trouble and dissatisfaction will follow for all time. Generally speaking, the good firms of greenhouse builders will, by suggestion or otherwise, see that most houses are correctly placed as regards aspect, but although this is so, it should be nevertheless a part of every gardener's knowledge to know what is the right aspect. For those plants that make their growth and finish between, say March and November 1st, a house running north and south and, of course, facing east and west, will be very satisfactory, especially if of the even-span-roofed type. Such houses make good graperies, peach houses and chrysanthemum houses but for winter growing of roses and carnations houses running east and west are

VIEW IN FALL SHOW AT MINNEAPOLIS PARK CONSERVATORIES.



best, though not exactly east and west but with the southerly side facing about twenty degrees east of due south. This slightly eastern aspect is of great importance to the rose grower as his house catches the early morning sunshine which enables him to shut off the fire heat sooner and likewise get his syringing done at an earlier hour, giving the plants a better chance of drying before night; further, scientists claim that the photosynthetic effect of morning sunshine is greater than that of the afternoon and also that we get more sunshine in the morning than we get in the afternoon, all of which favors the house with an aspect that is a little east of south. So much for the aspect. We now come to the matter of pitch or slope of the roof. Theoretically the roof of a greenhouse for the winter growing of plants should be as nearly at a right angle to the sun as possible during the darkest winter months, November, December and January. This, of course, is a counsel of perfection as there are good practical reasons why it is impossible, for our houses would be too high and narrow, but generally speaking, the roof should be as steep as possible and at the same time conform to the general structural requirements. For this latitude a pitch of about thirty-six to forty degrees on the south and fifty on the north is a very good one, but the main ideas to grip are, that the steeper the roof the greater the amount of light which will reach the plants and that as we go north a steeper roof is required than would be needed to give the same amount of light at a point further south. A very good feature of steep roofs is that the snow slides off them in winter especially where there are no gutters on the house.

Why Two-Inch Wrought-Iron Pipes?

Why are two-inch wrought-iron pipes to be preferred to four-inch cast-iron ones for heating greenhouses with hot water? Because in any given number of feet of radiating surface we have only half the quantity of water to heat. This means more rapid circulation and economy; then there is the fact that we can more readily place two-inch pipes without being in the way, and there is the ease with which any changes can be made and, all the threads and fittings being standard, repairs can be easily done. The only good about the cast-iron pipe is its greater freedom from corosion; it will generally last longer than the wrought-iron.

Why Must Night Temperatures Be Uniform?

Why is it more important to keep uniform temperatures at night than during the day? This I conceive to be a question seldom asked and perhaps more seldom answered. Night temperatures are such as experience has shown are best suited to keep the plants as inactive as possible during darkness, without giving the growth too much check. The optimum temperature being given for any kind of plant, let us consider the result of deviation in either direction, up or down. Take any variety of the rose, for instance, whose optimum temperature is 58 and suppose the night temperature to be allowed to fall to 54 or 55 for any length of time, what will be the result? It will result in shorter stems, fewer flowers, and if it is at the critical period in the fall of the year some varieties will go to sleep and will be hard to awaken for a month or two. On the other hand, suppose the temperature be allowed to run up to 62 or 63, then we get longer but weaker stems and flowers which will not keep so well, besides through forcing the plants we lay them open and make them more susceptible to the attacks of all kinds of insects and diseases. These ill effects are likely to be more pronounced when the temperature see-saws up and down, high one night and low the next; naturally, ill effects increase in proportion to the amount of deviation from the correct temperature.

It has ever been my experience that, other things being equal the best stock was grown where they were most particular about keeping correct night temperatures. Now, variation of day temperature is not so important because, in the main, variations are caused by the sun, and if the heat runs up in bright sunshine causing more rapid growth, so likewise is the sun's power greater to keep pace with the heat and to enable the plant leaves to go through their elaborate chemical operations, thereby assuring quality of growth as well as quantity.

Why Plants Turn to Light?

Why does a plant appear to draw towards the light when growing in a window? It is because light retards growth, the stem on the plant growing in the window is shorter on the side next the light and longer on the side away from it, hence the lean.

Why Do We Feed Plants?

Realizing that air and water are the two greatest factors in plant growth, yet when we talk of feeding we generally mean supplying some of the various mineral salts which are supposed to be deficient in the soil. We feed nitrogenous substances to promote and increase growth; phosphatic substances for fruitfulness and early maturity and potash for quality, such as high color and flavor in fruits, scent in flowers, etc. Every man using a fertilizer should know something of its ingredients, chemically, and should know what he is feeding for and whether the particular fertilizer he is using is likely, in the nature of it, to bring about the desired results.

Why Prune?

Why do we prune? Some don't, and others do but partly, but a man should have, if he would prune intelligently, a clear idea of the objects of pruning, which are—first, to so thin out the weak and superfluous growths as to give a maximum of light and air to that which remains to the end that it may become fruitful, strong and healthy. Secondly, to maintain the proper size and form of the tree. Summer pinching or pruning seems to be especially valuable in the production of fruit buds. When a man is pruning a mixed border of flowering shrubs he must ask himself which are spring flowering and which are fall flowering, or, better, which flower on last season's growth and which on the new growth as it makes all the difference in the time and the manner of their pruning. The same applies to the pruning of some of the climbing roses as against the teas and hybrid perpetuals, but this is not a treatise on pruning, but a suggestion for use of thought and questioning in this as in other things. But here is another question on pruning. Why do we root prune? and the answer is, "we don't," or at least very few of us do. And my personal opinion is that it is not worth the labor as the same object of promoting the production of fruit buds may be attained by methods less laborious and just as sure.

Why Mulch?

Why do we mulch? The primary purpose of mulching is the conservation of soil moisture by cutting off evaporation, and of course, when we mulch with manure we are indirectly feeding the plants too. Heavy mulching is a mistake as it will prevent the sun heat from warming the soil and if it excludes the air will cause denitration which is apt to undo much of the good that might rightly be expected of this operation. In the fall we mulch newly transplanted trees because their roots are not in such intimate contact with the soil as to be able to take up sufficient water and so by mulching and preventing the ball from freezing and keeping it fairly moist at all times those roots that are able to perform their functions will keep the plant or tree going until the advent of better growing conditions in the spring. Nature attempts to mulch many trees in the fall, especially the low-growing evergreens, but in our zeal to clean up we are apt to rake them out and thereby rob the evergreen of a much-needed protection for the winter. Many evergreens die during winter and early spring from lack of water, because the ground is frozen deep and the roots cannot take up water, while at the same time the sun is strong and perhaps there is a cold drying wind. Were these trees heavily mulched with leaves the frost would not go so deep, thereby allowing the roots to supply water and in many cases valuable trees would be saved.

Why does the grass grow so much more luxuriantly on the lawn in spots where mushrooms have been growing than elsewhere? I attempt no answer but merely note the fact in the hope that some of you might furnish the explanation.

Why Drain Land?

Why do we drain land? We drain land to remove stagnant water and to lower the natural water table to such depths as we believe to be conducive to the healthy development of plant life.

Why is from three to four feet the best depth to lay tile drains? Only a short time ago a prominent gardener while giving a talk before one of the horticultural societies condemned the idea of draining so deep and argued that depths around thirty inches were sufficient, because the drains were then nearer to their work, as if their work was at the surface. This is a subject that only comes up occasionally and gardeners are not often called upon to lay out and construct systems of drainage, but I am firmly convinced that it should be a part of every gardener's education to know the correct principles of land drainage, and, because of the general confusion of ideas which seem to play around this subject, I trust you will excuse me for taking a little time in dealing with it. From three to four feet is advocated because, after nearly a hundred years of experience and experiment the world over, in all kinds of soil, under a great diversity of conditions, and at depths ranging between one and eight feet, the balance of authority is in favor of the depths mentioned. Forty-two inches is better than thirty because it gives another foot of living, growing, inhabitable soil, for it must be known and understood that a soil filled with free stagnant water is a dead soil as far as the great majority of plants are concerned, in fact all with the exception of a few aquatic and semi-aquatic plants. You have all seen a tree that was dug out of, or even blown over in swampy land and noted that its roots seldom or never go down more than a foot or so,—at any rate, to no greater depths than that to which the water recedes during the summer. At depths greater than four feet the cost of the work increases at a greater rate than the benefits accrue, but the greater the depth the greater the amount of water a drain will discharge in a given time. As four feet is the limit of capillarity in all but the very closest grained soils we do away with the cold of evaporation which is what keeps our soils cold and makes them so late in spring. Some might say if you cut off capillarity our soils would get too dry through not getting the benefit of the water raised from lower depths by this means, but this is a false alarm as four feet of well drained soil will hold between the soil particles about twelve hundred tons of water to the acre, which is nearly one-third of our average annual rainfall and enough for any crop; besides this would be replenished by every rainfall. Then there is the fact that rains bring down nitrogen amounting to several pounds per annum, as well as carbonic acid, which has a solvent effect on the soil. Now, experiments conducted by unimpeachable authorities have shown that shallow drains carry away much more plant food than the deeper drains do, simply because the rain is filtered through a greater depth of soil into the deep drains.

Drains are not put down from three to four feet to protect them from any possible action by frost, as in countries where frost hardly ever goes in a foot these depths obtain, though in the New England climate there is danger to shallow drains through heaving of the soil, as in resettling there is a chance of disturbance of the alignment which would be fatal to the drain, and some very soft tiles may go to pieces through getting frozen, as you have seen soft bricks do. On the score of economy the deeper drains have something on the shallow ones, as the shallow drains, to be effective, must be closer together, which will entail a greater cost for tile and which will more than offset the extra foot or eighteen inches of digging in the lesser number of deeper ditches. I might quote the late Colonel Wearing, who was perhaps the greatest drainage engineer that this country has ever had, and Josiah Parkes who was for many years the drainage engineer to the Royal Agricultural Society of Great Britain. I say, I might quote these and other eminent authorities at considerable length to support my contention that shallow drainage is wasteful, inefficient, and therefore wrong, but for fear of wearying you I will desist. There is, however, one other question on drainage that I wish to ask and answer, which is:

Why Is Porous Material Harmful?

Why is it harmful to put crushed stone, gravel or other porous material in direct contact with tile drains? First, because the best authorities on drainage condemn it, some of them going so far as to advise the use of good stiff clay for the first foot over the drains. Secondly, because you are aiming to have the water flow up into the drains from the bottom and not percolate in from the top. Third, because water with free material such as gravel to pass through rapidly down to the drain will carry a lot of fine silt which may get into the drain and cause serious trouble. Then, if further reasons are wanted, there is the cost, which would be a serious item on any large job and, besides, it would be spending money on something more apt to do harm than good.

Why the Talk?

Mr. Arnold Bennet deplores the general tendency of mankind to let their mental machinery rust in their cranium. If anything I have said this evening shall be the means of stimulating any one of you to do a little more serious thinking of the "whys and wherefores" of your daily work, I shall feel abundantly repaid for any little effort that I have put forth in coming before you this evening.

TWO USEFUL GARDEN PERENNIALS.



LUPINUS POLYPHYLLUS ROSENS.

Lupinus polyphyllus roseus is a fine pink flowered form of the well-known dark blue lupin of the gardens. The picture shows the stately beauty of the plant when in bloom in mass effect and the characteristic digitate foliage which is attractive at all times. These lupines are of the easiest culture and perfectly hardy.

Iris siberica is, as its name indicates, a native of northern Asia and one of the hardiest. The forms are many as to color, the type being lilac blue and pale violet. A rich, deep and moist soil and abundant sunshine are to its liking and what may be expected of it under such conditions is well shown in the accompanying illustration.



IRIS SIBERICA.

CHRYSANTHEMUMS.

A paper read by C. W. Johnson, Secretary of the Chrysanthemum Society of America, before the Minnesota State Florists' Association.

The chrysanthemum both from a commercial and exhibition standpoint is a very important factor to the florist, whether he be a grower, a retailer, or a commission man. The young plants and rooted cuttings are also a leading feature with most of the wholesale plantsmen.

The Commercial Standpoint.

In presenting an article of this character to a body of florists, the feature of first importance is to take up the subject from a commercial standpoint. The commercial qualities of chrysanthemums are looked upon from slightly different angles by each branch of the trade. The growers' point of view is that the variety must be a good grower, easy to produce from, that it will develop a double flower of good color from each bud section; not so heavy in foliage that it will require extra space to grow it; it must be medium dwarf and 99 per cent. of the flowers come perfect. The flowers should be pure in color tone and not susceptible to damping or spotting of the petals, and, last but not least, they must have a good substance and keeping qualities so as to travel long distances without damage. A close, compact flower is considered to be of greater commercial value than a loose, ragged one. The commission man does not have the question of habit or growth to contend with. His main point of view is the selling value and the keeping qualities of the variety. These are also very telling points with the retailer, but color is one of his main considerations. Every man who sells flowers knows the value of a pleasing shade of color. It must have life enough in its tone to harmonize with the different furnishings that are used in decorative work. White, yellow and pink are the colors most in demand, but the light bronzes and maroons are beginning to be used more and more each year for special work or occasions.

Growing Commercial Blooms.

I will now take up the growing of commercial cut blooms. Let us start with the end of a chrysanthemum season, or the latter part of November. Select for the stock plants the strongest and cleanest of the stools that do not show any signs of leaf disease. If a bench is available in a light house where the temperature can be held around 45 degrees at night, and where abundant ventilation can be given on every favorable occasion, it is the best place that can be had to carry over the stock plants. When a bench as described is not at your command, then the stools should be put up into shallow flats, working plenty of soil down between each stool, so that the roots will have something to work on to produce abundant cuttings. We sometimes see the stock plants put up in flats and set underneath the benches for three months or more. This is a serious mistake, because under such conditions the stools cannot possibly throw up anything more than a spindly cutting, beside being nests for woodlice and many other insects. It is just as important to give your stock plants

BE A WINNER

The Most Notable and Most Noticed Class in the Spring Exhibitions is the

RAMBLER ROSE DISPLAYS

The Rambler Roses take the same premier position among Easter plants. They are the regal feature of the summer garden. If you want to

EXHIBIT AND WIN

at the International and other Spring Exhibitions, if you want the best Easter Flowering Varieties, if you want a Rose Garden of transcendent beauty, let me supply you now. **I have the goods** and the majority of the most popular and serviceable varieties were originated by me. *Send for illustrated list now.*

M. H. WALSH, Woods Hole, Mass.

plenty of light and care as it is to give the bench plants good culture. A number of growers follow the method of taking off the suckers during October and November, potting them up into 2½-inch pots. When well-rooted and established, plant them out on benches in good, live soil, and as they begin to grow, take off the tops for the first batch of cuttings. The plants that are left will then begin to send out from each joint shoots that are the very best of material for cuttings; also at the base of the plants numerous suckers will shoot out which also make fine cuttings and root easily. Stock plants of this character will continue to produce cuttings until very late in spring so that by following this method a large number of plants can be worked up from a small amount of stock. The care of the stock plants during the winter is very important. They should be kept in a moderately dry condition at the roots and given plenty of air on every favorable occasion, with a low temperature maintained at all times. Very little propagation for commercial stock is started before March, which means that the stock plants must not be treated too liberally with water or subjected to a high temperature, or the wood for cuttings will stretch out and become spindly.

Propagation.

The next item of our subject is the taking of the cutting and its propagation. It has been said that a cutting as thin as a darning needle, if given good culture afterwards, is just as good as a stronger one, but I have not found it so. I am a firm believer in starting out with the very best material available and rather than take a cutting too thin would give it more time to gain strength. It seems hardly necessary to touch on the question of trimming the cuttings. Suffice it to say that when they are trimmed back a little more strength is given them to root out, also they take up less room in the cutting bed. Provide a sharp, clean sand for the propagating bed and make sure of ample drainage to carry off the water freely without letting the sand through the bottom of the bench. Our plan is to cover the bottom of the bench with ¾-inch limestone, which acts as a drainage, and prevents the sand from washing through. The location of the propagating bed is an important point. A few of the varieties need a little higher temperature to root them, but the majority are better off if allowed to root slowly. A sand temperature of 54 degrees with an overhead temperature of 50 degrees throughout the body of the house we have found best suited for them. The best time for starting the propagating depends on the variety, its season of blooming and, to some extent, the grade of stock desired; also, if early propagation is carried on, whether the young stock in the rush of spring business will receive proper care and attention. Varieties like Ivory and its sports, Polly Rose, or any of the other dwarf growers which take a long season to make stems, should be propagated the latter part of February or early in March. The very early flowering varieties, Golden Glow and Smith's Advance, when wanted for August or early September flowering and can be planted early before becoming hard, should be rooted ready to take from the sand by the middle of March. They can then be potted into 2½-inch pots, transferred into 3-inch between April 15 and May 1, and be ready to be planted into the benches about May 20.

Early and Mid-Season Varieties.

The main section of the early varieties which mature their flowers early in October, should be ready for potting

PLANT HOUSES OF A. M. DAVENPORT, WOBURN, MASS.



HEADQUARTERS FOR AZALEAS

6000 to select from, all sizes, 50c to $5.00 each. Also Special 3-inch pots

Dwarf Petrick Azaleas $25.00 per hundred.

BEGONIAS, Glory of Cincinnati, 6½ inch pots..$12.00 per doz.
CYCLAMEN, 5½ inch pots.....$6.00 to $9.00 per doz.
6½ inch pots.....$9.00 to $18.00 per doz.
ROMAN HYACINTHS, 8 inch pans.....$9.00 per doz.
POINSETTIAS, 3 inch pots (single).....$3.00 per doz.
4 inch pots (single).....$4.00 per doz.
5 inch pots.....$6.00 per doz.
6½ inch pots.....$9.00 per doz.

POINSETTIAS, 6½ inch pans (3 in a pan with Asparagus).....$9.00 per doz.
8 inch pans.....$15.00 per doz.
9 inch pans.....$18.00 per doz.
10 inch pans.....$24.00 per doz.
PRIMULA CHINENSIS, 5 inch pots.....$3.00 per doz.
PALMS, MIXED FERNS FOR DISHES, ETC.

Terms Cash or Satisfactory References

WILLIAM W. EDGAR COMPANY, Waverley, Mass.

from the sand the first week of April. This will allow for them to be given another shift into 3-inch pots early in May and planted into the benches the first week in June. A list of good commercial varieties for early October flowering are: Polly Rose (white), Unaka (pink), Monrovia (yellow), Mlle. Arlette Dubois (white), Virginia Poehlmann (white), Donatello (yellow), Pacific Supreme (pink), White and Pink Ivory, Mlle. Clementine Touset, Yellow Touset, Ramapo, Mme. day and Mrs. H. W. Buckbee.

The mid-season, or all varieties that mature their blooms between October 25 and November 15, are next in order. Taking this section as a whole as regards their propagation, they will average more perfect and larger blooms from April-rooted stock than from any other, but let me emphasize the great importance of caring for the young plants directly they are rooted, because a few days either way in the time of the plants' propagation is not of such a vital importance as is the care that is given them afterwards. The mid-season varieties that have stood the test are so well-known to you that it is needless for me to enumerate a list of varieties, but there is one point that I feel I should bring out, and that is, we are drawing the lines too close on color. There is altogether too much of the sameness as regards color among the chrysanthemums grown for commercial purposes and we find that the people are demanding a few of the other colors besides white, pink and yellow, such as light bronze, maroon, old gold and the red and crimsons.

After-Culture.

As I have mentioned before, after the young stock has been potted from the sand give them as natural a treatment as can be given. Do not overwater or allow them to become dustdry. Do not force by high temperature or close conditions. Keep them clean of every kind of insect and give them plenty of ventilation on every favorable occasion.

(To be Continued)

ACACIAS

12 Best Varieties

Good Strong Plants well set with flower buds,

$2.50 to $7.00 each

A good opportunity to form a useful collection.

THOMAS ROLAND
NAHANT, MASS.

CHRYSANTHEMUMS STOCK PLANTS

Pacific Supreme
Alice Byron
Virginia Poehlmann
Golden Glow
Major Bonnaffon

$2.00 per 100—$18.00 per 1000

SHEPARD'S GARDEN CARNATION CO.
292 Fairmount St., Lowell, Mass.

KILLARNEY BRILLIANT

THE Great Forcing ROSE

ROBERT SCOTT & SONS, Sharon Hill, Pa.

ORCHIDS

Imported and Potted

FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

Our Catalogue on application

LAGER & HURRELL. Summit N. J.

SPHAGNUM MOSS

We guarantee fresh and clean, 10 bbl bales; Selected Stock; neatly burlapped; 6 per cent, off Cash with order.
1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 29.00
Car lots. Write for Prices.

INDUSTRY MOSS & PEAT CO., Waretown, N. J.
BLOCK BOX 5

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality." "Square Deal Quantity." 5% off cash with order.
1 bale .....$3.80 25 bales, each..$3.40
5 bales, each... 3.60 25 bales, each.. 3.20
Car lots.. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. each.

J. H. SPRAGUE, Barnegat, N. J.

Flowering, Decorative and Vegetable Plants

In abundance at all times

Correspondence Solicited

ALONZO J. BRYAN, WHOLESALE FLORIST
WASHINGTON, NEW JERSEY

WALTER MOTT'S NOTES BY THE WAY.

Parkersburg, W. Va.

Chas. P. Dudley took advantage of the chance to secure a fine store in the centre of the town on a long lease and has fitted it up in the latest style. There are really two stores in one, which enables him to carry a big stock. As president of the Chamber of Commerce he has an excellent following.

J. W. Dudley Co. report a good Thanksgiving business and are preparing for a busy Christmas with a choice stock at the old stand.

Wheeling, W. Va.

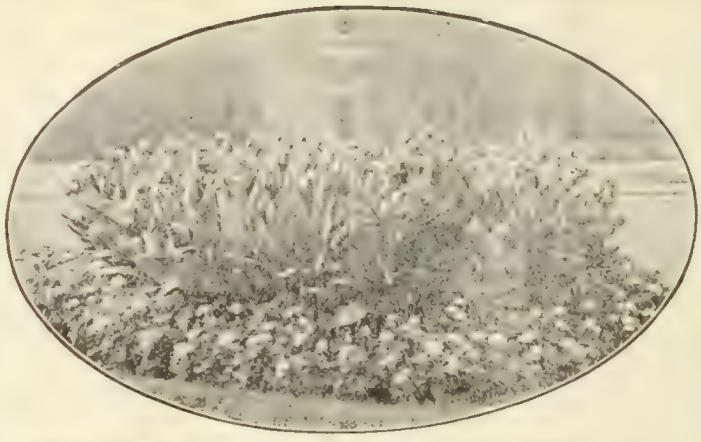
A short time ago, when Arthur Langhans purchased an old colonial mansion in the Fifth avenue residence district, it was the general opinion of the trade that he had made a bad move. Subsequent events have proved the opposite, as the location is ideal for the business. A handsome store, with a frontage of 13 feet and ceiling 17 feet, affords every opportunity for making attractive displays. A show house and small range at side and rear contains a fine assortment of stock for the holidays. Mr. Langhans reports a shortage of stock.

Pittsburgh, Pa.

The absence of bright weather is seen in the faded color in both pink roses and carnations, being neither pink nor white and lacking in substance. A few bright days are hoped for to improve the stock for holiday trade, which promises to be fully up to the average. Already the stores are decorated—some very artistically—but the writer was impressed by the quantity of artificial stock seen, particularly in some where the windows did not differ from a Woolworth store. With the counterfeit article so strongly in evidence, it surely must affect, to some extent, the sale of the real thing. The argument that the goods cost less and there is more profit in handling than with live stock may sound feasible at first sight but rather short-sighted on reflection. The substitution of artificial for real palms for decorative work was primarily responsible for the almost disuse of any in favor of ferns and it will doubtless be their fate whenever they are imitated to the same extent.

We learn from an item in the New York Times for December 9, that Henri Beaulieu, a well-known French seedsman of Woodhaven, N. Y., has been missing since September 13, on which date he was discharged from a hospital after undergoing medical treatment. Mr. Beaulieu was absent for a long period once before, but turned up finally, having been in France, and it is hoped by his friends that he may yet come to light in the same way on this occasion.

HOLIDAY SUPPLIES.
To have them Right and In Time The Best in the World can be had from the Advertisers in this paper.
ORDER THEM NOW.



Bed of Swastika Cannas in front of the Agricultural Building, Washington, D. C.

Swastika Brand Cannas
Are Used Exclusively By The Government

IN the beautiful Capitol grounds surrounding the Governmental buildings of this mighty nation, C. & J. Swastika Brand Cannas are used almost without exception. The reason for this seeming partiality is best sized up in a letter from the Department of Agriculture, a phrase from which reads: "We want only the best Cannas obtainable." That our soil here is particularly fortunate for growing Cannas, you would at once recognize could you see the thousands of fat heavy clumps we dug from our fields this Fall. Over eighty varieties of our own producing we now have—twenty of which are bronze foliaged. If you want some of these C. & J. Swastika Brand Cannas that are **grown with care for people who care**, then order early. We cannot otherwise guarantee to give you full quantities in all the kinds you will want. Orders placed now, held for shipment when you wish.

THE CONARD & JONES CO.

Swastika Brand Cannas

WEST GROVE, PENN.

RIGHT HERE

CHRISTMAS PLANTS. TOP NOTCHERS

AZALEAS, 50c. to $3.00 each.
POINSETTIA pans of four and five, $1.50 each; single stems, $3.00, $4.00, $6.00 and $9.00 per dozen.
CYCLAMEN, 75c. to $1.00 each.
BEGONIAS, Cincinnati and Lorraine, 7-in. pots, $15.00 per doz.
PRIMULAS, Sinensis and Obconica, $3.00 per doz.
FERNS, Boston and Whitmani, all sizes, 50c. up.
Cash or Reference from unknown correspondents.

William A. Riggs, Auburndale, Mass.

AMERICA GLADIOLUS BULBS BEST FOR FORCING

$12.00 per 1000, discount on large orders.

Clean, Young, Home-Grown Stock

BROOKLAND GARDENS, WOBURN, MASS.

COLD STORAGE

Longiflorum Lily Bulbs, Rolker's Extra Selected Retarders, Giganteum type high grade stock; cases of 250 each, only about twenty (20) cases still unbespoken; booked so long as unsold; for $18.50 the case, Summer 1914 delivery, your option of dates. Address

AUGUST RÖLKER & SONS 51 Barclay Street or P. O. Box 752, New York

REGULATIONS GOVERNING PLANT IMPORTATIONS.

Federal Horticultural Board.

For plant exportation to the United States, the regulations under the Plant Quarantine Act (Circular No. 44, Office of the Secretary of Agriculture) establishes the following classification:

1. Countries which maintain nursery stock inspection and certification, in accordance with the regulations drawn under the Plant Quarantine Act.

2. Countries which do not maintain nursery stock inspection and certification.

Countries of the first class only are open to commercial importation of nursery stock, and no restriction is placed on the amount or character of nursery stock which may be imported from such countries, except as to such nursery stock as may be excluded under specific quarantine.

Nursery stock from countries which do not maintain nursery stock inspection will be admitted into the United States only for experimental purposes and in limited quantities, under special permit, through the particular port designated in such permit. (See regulation 5). Such nursery stock must also, before delivery, be opened and examined at port of entry by an inspector of this Department, and cannot be entered unless it is found to be free from plant diseases and insect pests.

Importers are therefore urgently advised to limit their application for strictly commercial imports to the countries listed below. Any country not now on this list will be placed there as soon as this Department has been officially notified of the compliance of such country with the regulations governing inspection and certification.

Countries Now Open to Commercial Importation of Nursery Stock, With Official Seal of Each.

Barbados (Seal to be furnished later.)
Belgium "Ministere de l'Agriculture, Service Phytopathologique."
Bermuda—"Department of Agriculture."
Canada—"Division of Entomology, Department of Agriculture."
Cuba "Republica de Cuba Inspeccion Sanitaria Vegetal."
Denmark "Landbrugsministeriets Tilsyn med Planteskoler og Planteskoleartikler."
England—"Board of Agriculture and Fisheries."
France—"Republique Francaise Ministere de l'Agriculture Direction des Services Sanitaires et Scientifiques et de la repression des fraudes."
Germany (Each political division of the German Empire will use its own seal.)
Guatemala—"General Office of Agriculture."
Holland "Ministerie van Landbouw, Nijverheid en Handel Directie van den Landbouw Phytopathologische Dienst."
Ireland—"Department of Agriculture and Technical Instruction."
Japan "Department of Agriculture and Commerce."
Luxemburg—"Grand-Duche de Luxemburg Station Phytopathologique."
Scotland—"Board of Agriculture for Scotland."
Switzerland "Schweizerische Versuchsanstalt fur Obst-, Wein-, und Gartenbau." (Swiss Experimental Station for Arboriculture, Viticulture and Horticulture.)
Trinidad—"Trinidad and Tobago. Georgius V. D., G. Britt. et Terrarum Trans Mar, Quae in Dit Sunt Brit., Rex F., D., Ind., Imp."

C. L. MARLATT,
Chairman of Board.

PRINCESS DAGMAR

Without doubt the best Crimson Carnation in existence

BOOKING ORDERS NOW FOR EARLY SPRING DELIVERY

ROOTED CUTTINGS

$12.00 per 100 $100 per 1000

AWARDED

At the MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, November, 1912:
SILVER MEDAL.
At the GARDENERS' AND FLORISTS' CLUB OF BOSTON, Jan. 1913-Feb. 1913:
REPORT OF SUPERIOR MERIT (each month).
At the INTERNATIONAL FLOWER SHOW, New York, April, 1913:
FIRST for best 100 crimson.
GOLD MEDAL for 12 largest blooms.
SILVER MEDAL, Perpetual Flowering Carnation Society, England.
BRONZE MEDAL, American Carnation Society.
PRELIMINARY CERTIFICATE for Fred Dorner Memorial Medal.
At the CHICAGO HORTICULTURAL SOCIETY, April, 1913:
BRONZE MEDAL, first, best seedling not disseminated, any other color.
At the BOSTON CO-OPERATIVE FLOWER MARKET SHOW, April, 1913:
FIRST for 50 best seedlings not disseminated.
FIRST for 100 best carnations, ANY COLOR.
At the GARDENERS' AND FLORISTS' CLUB of Boston, May, 1913:
Report of HIGHEST MERIT.
At the AMERICAN INSTITUTE, New York, November, 1913:
CERTIFICATE OF MERIT.
At the HOLYOKE and NORTHAMPTON FLORISTS' CLUB, Holyoke, Mass., November, 1913:
SPECIAL PRIZE for 50 best carnations, any variety not disseminated.
At the OHIO HORTICULTURAL SOCIETY, Cleveland, Ohio, November, 1913:
CERTIFICATE OF MERIT AND SWEEPSTAKES for best seedling.

PATTEN & COMPANY

TEWKSBURY, = = = = MASS.

WASHINGTON NOTES.

Albert F. Esch had an exciting time last week when fire, originating in a paper warehouse adjoining his property, threatened to destroy his entire place. The wind blew the flames in his direction causing the glass in one of the houses to become hot and when hit by water, nearly every pane in one of the houses broke. In addition, water undermined the foundations and considerable of the masonry was washed away. This house was filled with lilies ready for the Christmas business, and a large quantity of ferns and palms, some of which were being held in storage for a local florist. The damage amounts to between $750 and $1,000. This is the third misfortune that has befallen Mr. Esch during the last four months. During a recent heavy hail storm his property was badly damaged and shortly after that his boiler gave out, necessitating the installation of a new one.

Washington florists spent a very pleasant evening at an entertainment given at the Elks' Home by Kallipolis Grotto, an organization of which practically every florist in this city is a member. Among those who participated were William F. Gude, George Shaffer, Adolph Gude, Fred H. Kramer, O. A. C. Oehmler, Edward S. Schmid and I. Rosnosky of Philadelphia.

Fred H. Kramer's greenhouse looked something like a jungle last week during the cat show. There was something doing every minute, for if one of the cats was not trying to make its escape, another was trying to claw out someone's eyes. The average daily attendance was about 500 people and this should result in quite a lot of additional business for Mr. Kramer. At the poultry show, held in connection with the cat show, William F. Gude delivered the welcome speech, Edward S. Schmid lorded it over the judges, and a number of other florists mixed up in the scheme. The pressing of a button at the White House by President Wilson caused the lighting up of the hall, the draping of a flag bringing into view a large collection of American Beauty roses, the opening of the show.

The free distribution of seeds by the Government, which frequently resulted in crops of vegetables on front lawns where only grass and flowers were supposed to grow, will be discontinued if Congress adopts a recommendation of the Secretary of Agriculture contained in the book of estimates. The "reform" is expected to arouse a wail of protest that may prevent its adoption.

Assistant Secretary of the Treasury Hamlin has instructed the officials at the various custom houses to return to the post offices at which received, a number of packages of nursery stock shipped from foreign countries either through ignorance or in violation of the plant quarantine act. This stock is to be sent back to the original shippers.

BUY YOUR CHRISTMAS FLOWERS AND SUPPLIES FROM HORTICULTURE ADVERTISERS.

CHICAGO NOTES.

Christmas Plants.

The stock of plants in and about Chicago will mean even more to the local trade than in former holidays, which is saying a great deal. Year by year, the plant sales have crept up till, to walk into the down-town retail flower stores, Christmas week, one would almost wonder if cut flowers were being sold at all. This year, nearly a month of warm, cloudy or rainy weather has reduced the cut of first-class flowers, and the shipping trade will probably consume by far the greater part of them, leaving the local sales more dependent than ever upon plants. Poinsettias will lead, with azaleas closely following. These were so far along that the unseasonable weather has had little effect upon them. The supply is probably larger than in any previous year, as it has gained each year for the past ten The poinsettia sells at sight, the only choice being the best-shaped plants. In azaleas, the bright colors are the sellers, as usual, and there is little demand for the white. Of all the azaleas sold during the entire winter, probably Simon Mardner and Mme. Petrick form the greater part. Cyclamen are affording the growers much concern, for they are very difficult to bring into bloom without sunshine. There is some good stock, however. Begonias have grown greatly in favor recently, and Glory of Cincinnati seems in the lead in popularity. There does not appear to be the demand for berried plants that existed from three to five years ago in this market. It seems impossible that ruscus, statice and prepared ferns could sell in place of plants, but such is the case. The hampers of live plants, usually the most expensive of the florists' offerings, are now reproduced in smaller effects, by a basket of red or green, filled with colored ruscus, statice, cones, etc.

One of the large retail stores sells plants in hampers from numbered samples, which avoids all confusion and litter in the store. Each style is numbered and the list with description of each kind is kept, so stock can be easily replenished as it is sold out.

Some fine lead pencils are being distributed by the Chicago Carnation Co. to its patrons.

California holly is booked to arrive in Chicago a week before Christmas. It was very satisfactory last year.

As the holidays draw near, the plant growers seem more cheerful than the cut flower men, though they are having their troubles also, coaxing blooms without sunshine.

Hardy phlox is reported by A. L. Vaughan to have bloomed in his yard early in December. Outdoor violets and dandelions were also in bloom and a Chicago newspaper had a picture of children gathering them.

Ilex verticillata, commonly known as winter berries, are missed from the market this year. The hard frost followed by continued warm rain softened the berries. Princess pine is not seen in the usual quantity, and holly so far is not of very superior quality.

Visitors: Charles Balluff, of Hill Floral Co., Indianapolis, Ind.; C. Lund, Wausau, Wis.; Rentschler Bros., Madison, Wis.; Mr. and Mrs. A. C. Reicher, Michigan City, Ind.; Wm. P. Craig, Philadelphia, Pa.; Mr. Leidiger, of Edlefsen & Ludiger Co., Milwaukee, Wis.; A. Schutz, Hammond, Ind.; Mr. Sarros, Chicago Heights, Ill.; Henry Ilg, Winnetka, Ill.; F. L. Henry, Watseka, Ill.

PRINCE E. C. de ARENBERG



A red rose which will make good. We have tested it thoroughly and will stand back of it. ***Delivery Early Spring 1914.***

Large well formed buds which develop perfectly. No flat buds. Lively pleasing red without the objectionable blue shade.

A free heavy grower with ideal stem and foliage and one which will grow for any one.

It has been hailed by rose growers, who have seen it, as *the best red rose in sight.*

Grafted or Own Root, $0.75 each, $7.50 per doz., $12.50 for 25, $30.00 per 100. $250.00 per 1000.

S. J. REUTER & SON, Inc. WESTERLY R. I.

CYCLAMENS: BLOOMING as well as SEEDLING

From 4 in., 5 in., 6 in., 7 in. and 8 in., at from 15c. to $1.50 each. Fine grown stock in all colors. August-sown Seedlings -200,000 of them of our own grown seeds; not comparable with any old seed grown.

IT IS THE ACME OF PERFECTION

what we select for seed bearers and that is the reason we send them from Ocean to Ocean. Try them and be convinced $2.00 per 100; $20.00 per 1000. Once transplanted: $3.50 per 100; $30.00 per 1000.

C. WINTERICH, Cyclamen Specialist DEFIANCE, O.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No 1, Hoboken, N. J.

The New French Hydrangeas

The dormant stock which we now have stored in cold frames is in prime condition to force for Easter, or to bring on slowly for Memorial Day and Spring sales. If you have no stock of these, you will make no mistake in taking advantage of this offer, you will find them good sellers.

AVALANCHE. A splendid large white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years.

MME. A. RIVERAIN. Superb bright rose color; very vigorous and floriferous.

MME. E. MOUILLERE. Probably the most popular white variety on the market today, an early easy variety to force.

MME. MAURICE HAMAR. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MME. AGNES BARILLET. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere.

MLLE. DE TREMAULT. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa.

MOUSSELINE. A beautiful mauve-rose with cream-colored centre; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose with carmine reflex; very free and easily forced.

ORNAMENT. Large pretty mauve-pink flowers, very free flowering.

RONSARD. Flowers and trusses very large, of a beautiful rose-tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

SENATEUR HENRI DAVID. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads on the style of La Lorraine, but an earlier bloomer.

Price on Any of the Above Varieties

5-inch pots	- - -	$2.50 per dozen;	$20.00 per 100
6- " "	- - -	4.00 " "	30.00 " "

One each of the Set of 21 Varieties in 5-inch pots for $4.00
" " " " " " " " " " 6-inch " " 6.00

HENRY A. DREER, Inc.

714 Chestnut Street, - - - - PHILADELPHIA, PA.

The above prices are intended for the trade only

PLANT GROWERS

Send A List of What You Have to Sell in Holiday Stock

I have a market for all pot plants you can supply in good quality and reasonable price if you LET ME KNOW EARLY.

C. C. TREPEL, LOESER'S, Brooklyn, N. Y.
BLOOMINGDALE BROS., New York City
GIMBEL'S, New York City

Largest Retail Plant Dealer in the United States

HOLIDAY BLOOMING AND DECORATIVE PLANTS

Finest Line ever offered to the trade. Our CYCLAMEN, AZALEAS, BEGONIAS, POINSETTIAS, PRIMULAS and other blooming and decorative plants are grown to perfection, and are very cheap at the prices quoted here considering the exceptionally high quality. You would do well to order your Christmas supply from us now. We will gladly set them aside for you and deliver at any time you may designate. It is very important that you make up your order today and let us have it as early as possible. DO IT NOW.

AZALEAS

10,000 all sizes, from 75c. to $4.00, specimens from $5.00 to $10.00. A limited number of plants in bloom ready for immediate use.

BEGONIAS

Lorraine, 6 in. pots, in full bloom, 75c. to $1.50; 7 in. pots, in full bloom, $2.00.

Cincinnati, 5 in. pots, 50c. to 75c. each; 6 in. pots, 75c. to $1.50 each. These are especially good plants, in full bloom.

CYCLAMENS

Christmas colors, good values, 4 to 7 in., 25c. to $1.50 each.

CROTONS

In variety, strong 4 in., $6.00 per doz.; 3 in., $3.00.

PALMS

We carry a full line of all the popular sizes. The stock is strong, clean and vigorous.

PRIMULA OBCONICA

Light and dark shades, strong, 5 in., $2.50 per dozen.

ARAUCARIAS

Excelsa, 75c. to $1.50 each; **Glauca**, $1.00 to $2.00 each; and **Compacta**, $1.00 to $2.50 each.

FERNS

Boston, Roosevelt and **Whitmani**, 5 in., 25c.; $3.00 doz.; 6 in., 50c.; $6.00 doz.; 7 in., 75c.; $9.00 doz.; 8 in., $1.00; $12.00 doz.; 10 in., $2.50 each; 12 in., $3.50 each.

TABLE FERNS

All the popular varieties, $3.50 per 100; $30.00 per 1000.

DRACAENA TERMINALIS

Highly colored, 3 in., $2.00 per doz.; 4 in., $2.50 per doz.; 5 in., $5.00 per doz.

Berried Plants

AUCUBAS

Extra full of berries, values from $1.00 to $3.50.

JERUSALEM CHERRIES

Large plants, full of fruit, 4 in., $1.50 per doz.; 5 and 6 in., $3.00 per doz.

PEPPERS

Cluster and Celestial, 4 in., well berried, $1.50 per doz.; $10.00 per 100; 2½ in. fruit for filling baskets, $5.00 per 100.

SCOTCH HEATHER

5 in., $1.00 each; 6 in., $1.25.

POINSETTIAS

In pans, a fine lot, from 50c. to $3.00 each.

COCOS WEDDELIANA

3 in., $15.00 per 100.

DRACAENA MASSANGEANA

Strong, 6 in., $1.25 to $1.50 each.

ASPIDISTRA

Green and variegated, about 10 to 15 leaves to a plant. Variegated, 15c. per leaf; Green, 10c. per leaf.

FICUS ELASTICA

Strong, 6 in., 75c. to $1.00 each; 5 in., 50c. each.

CYPERUS ALTERNIFOLIUS

Umbrella Plant, 4 in., per 100, $8.00.

ASPARAGUS PLUMOSUS

2¼ in., per 100, $3.50; per 1000, $30.00; 3 in., per 100, $6.00; per 1000, $55.00.

ASPARAGUS SPRENGERI

2½ in., per 100, $3.00; per 1000, $25.00; 3 in., per 100, $5.00; per 1000, $45.00.

Send All Plant Orders Direct to

POEHLMANN BROTHERS CO.

Plant Department, MORTON GROVE, ILL.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI

AND

BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

ERNEST OECHSLIN

Gale Ave. and Madison St.

RIVER FOREST, - ILL.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock
Wyncote, Pa.

It Won't Pay to Monkey Round, but Come Direct to Headquarters, to the Man Who Looks Out for Your Interests.

We Have a Big Stock of

CHRISTMAS PLANTS

ARAUCARIAS to Burn!!!

We will give you an Araucaria as big as Jumbo for only 50-60c; one as big as an Elephant for 75c. to $1.00; and just look! a Holy Terror for $1.25 to $1.50.

And look, three houses full of fine **Ferns, Smithii, Whitmanii, Scholzeli, Boston, Harrisii, Giatrisi**, all as fine as silk and as big as a street car every one and price! Panic price! Low Tariff price! 5½, 6 and 7 in. pots, 40c., 50c., 75c. to $1.00.

BEGONIA LORRAINE, all in bloom, 5 in. and 6 in. pots, 50c., 60c., 75c. and only $1.00 for the biggest in the crowd.

BEGONIA LUMINOSA, 4 in., 4½ in., 5½ in. pots, 15c., 20c., 25c. and 30c.

BEGONIA GUTTATA, 4 in., 20c. 3 in., 15c.

RUBBERS OR FICUS ELASTICA, 5½, 6 and 7 in. pots, 30c., 40c., 50c., 75c.; 4 in., 25c.

AZALEAS in bloom for Christmas. Mme. Petrick, have only large sizes, $1.00 to $25.00. Deutsche Perle, White Simon Mandner, Vervaeneana, White Vervaeneana and the standard old varieties everybody knows, 75c., $1.00, $1.25, $1.50 to $2.00.

FERN DISHES, 6 in., Wilsoni, Albo-lineata, Tsussimense and others, 25c. and 30c.

KENTIA BELMOREANA, 5 in. pots, 50c. Single plants, 35c., 40c., 50c., 60c. and 75c. Made up of 3 plants, 5½ in. pots, 35c., 40c., 50c. **FORSTERIANA**, made up of 3 plants, 5¼ in., 5½ in. and 6 in. pots, 35c., 40c., 50c. and 75c. 6 in., large, $1.00, $1.25, $1.50 to $2.00. **FORSTERIANA**, 60 in. high, 12 in. tub, $5.00.

ARECA LUTESCENS, 4 in., made up of 3 plants, 20 in. high, 20c., 25c.

POINSETTIAS, 4 in., 20c., 25c. 5¼, 5½ in. pots, single, 30c., 35c. **Azalea** pots with 2 **Poinsettias**, 50c. 3 in pans, 3 plants in a pot, $1.00 to $1.50, with **Asparagus** edge, very beautiful. **Azalea** pots, 6 in., with **Poinsettia** in centre and **Begonia Gloire de Lorraine** around edge, only 50c. **Poinsettias** branched, 5½ in. pots, 35c. to 40c.

COCOS WEDDELIANA, 3 in., 15c., 18c. and 20c. 4 in., 25c.

HOLLY FERN, 4 in. (2 kinds), 25c.

CHINESE AND OBCONICA PRIMROSES, 4 in., 15c. 5½ in., $3.00 per doz.

CYCLAMEN, 5½ in. pots, 40c. and 50c. 7 in., 75c.

ASPARAGUS PLUMOSUS, 4 in., 10c. 3 in., 7c. 2 in., 3c. **Sprengeri** at the same prices.

Cash With Order, Please

GODFREY ASCHMANN

Wholesale Importer, Grower and Shipper of Pot Plants

1012 West Ontario St., PHILADELPHIA, PA.

SOMETHING WE WANT YOU TO KNOW

If you are a grower of Chrysanthemums you have grown the varieties sent out by Elmer D. Smith & Co. of Adrian, Mich. If you feel as we do you'll buy their novelties for the reason that you don't dare not buy them or you'll miss something. When Chrysolora was sent out you remember you ducked at the price and got in late and the other fellow beat you to it.

We have the Eastern agency for Elmer D. Smith & Co. and their novelties will be disseminated by us in the future simultaneously with the western delivery from Adrian, Mich. All these novelties are described in our catalog which is yours for the asking. Placing orders with us means the same date of shipment from a nearer shipping point.

A. N. PIERSON, INC., Cromwell, Conn.

CHRISTMAS PLANTS

IN ELEGANT SHAPE. NOTHING FINER EVER OFFERED

POINSETTIAS, 5-in. pots, 50c. each; 9 and 10-inch pans, $2.00 and $3.00 each.
BEGONIAS, Lorraine and Cincinnati, $1.00 to $3.00 each.
PRIMULAS, Chinensis and Obconica, $25 per 100. CYCLAMEN, 50c. to $2.50 each.
FERNS, all the popular kinds from assorted small dish ferns up to specimen CIBOTIUMS.
ARAUCARIAS, PALMS, DRACAENAS, etc., etc., all sizes.

AZALEAS

A FULL STOCK OF VERVAENEANA, PETRICK, FIREFLY, ETC., 50c. to $15.00. A-1 GOODS.

A. M. DAVENPORT, WATERTOWN MASS.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.
BOSTON, MASS.

A large and complete assortment of
Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL

FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT

Potted Strawberries our OWN GROWING

JAPANESE MAPLES IN POTS

Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

HERE WE

Merry Christmas

I consider it my duty to the discriminating trade I serve, to the s my great specialty for many years to make this annual, holiday

I NEED YOU A

Have You

Made any move yet to maintain a sufficient supply of Orchids for the coming months? If not, then let me advise you to do so, for there will be more Orchids used during the season of 1913-1914 than in any two previous seasons. All indications point to this and I am prepared, as in the past, to take care of all customers who speak in time.

The Best Orchid Growers in the Country are My Sources of Supply. Make No Mistake.



Cattleya Trianae are now beginning to come in. Our Christmas selec and a host of other rich and useful things in Orchids. And, besides White and Yellow Daisies, Sweet Peas, Mignonette, Asparagus and F

Telephone
759 Madison Square

JAMES M

CATTLEYA HEADQU

RE AGAIN

Happy New Year

l growers I represent, and to the regal flowers which have been nnouncement, for the busy season is now getting under way and

YOU NEED ME



Because Of

my persistent and successful advocacy of the Orchid during the many years it has been coming into its own as a commercial flower, many florists have had the mistaken impression, that I handle no other stock to any extent. **Rose Growers** who are interested in finding a thoroughly reliable outlet for their cut are invited to correspond or call and see for themselves my splendid location, equipment and facilities for business.

For the Choice Grades of the Newer Roses I Have a Regular Demand far in Excess of the Supply.

ll also include Laelias, Hybrids, Cypripediums, Vandas, Oncidiums supply of Roses, Carnations, Violets, Gardenias, Lily of the Valley, nse Ferns. N. B. NO "BARGAIN COUNTER" METHODS HERE.

cMANUS

105 W. 28th STREET
NEW YORK

ERS FOR THE U. S.

THERE IS A REASON WHY OUR BUSINESS IS GROWING

All Our Goods Are Of The Best

THAT'S WHY!

Intending purchasers of Seeds, Bulbs, Plants, Garden Tools and Sundries,

INCUBATORS, POULTRY SUPPLIES, Etc.

for the coming season, do not neglect to get your name on our mailing list for our 1914 Catalogue, which will be replete with attractive offers of good things and fully illustrated.

NOTE: WE MAKE A SPECIALTY OF LAWN GRASS MIXTURES FOR ALL LOCATIONS

Burnett Brothers

SEEDSMEN

98 Chambers St. Between Broadway and Church Street **New York**

TELEPHONE, BARCLAY 6138

SEED TRADE

The new seed and implement store of Burnett Bros. at 98 Chambers street, New York, is now well arranged and makes one of the most convenient and attractive stores in the city, while the location leaves nothing to be desired. The building, which Burnett Bros. occupy entirely, consists of five stories with basement and sub-basement with elevator service from basement to top. Fertilizers are stored in the sub-basement and the packing rooms, insecticide and sundries departments occupy the main basement. The store with its show cases, seed bins, etc., which occupies the street floor, is spacious and well fitted up, the rear being devoted to offices. The four upper floors are devoted respectively to poultry supplies, incubators, etc., vegetable seeds in bulk, grass seeds, garden implements and tools.

The firm is composed of George and Samuel Burnett, who have been so associated since 1905. George Burnett, the senior partner, has been identified with the New York seed trade for upwards of a quarter of a century. His two sons, William J. and Robert Mann Burnett, are now associated with their father and uncle in the store—one in the office and the other on counter trade. Both these young men have enjoyed a good education and are graduates of the Spencer business college, and give every promise of capability to handle this growing business when the time comes for their elders to pass on.

We have just been informed that Senator Gronna of North Dakota, expects to have a public hearing in February, on Senate Bill 480, to Regulate the Sale of Seed in Interstate Commerce, before the Senate Committee on Agriculture and Forestry in Washington. This bill is a very drastic proposition and it should, and doubtless will, be strenuously opposed by the seed trade. All those interested should send to Washington for a copy and study its provisions carefully.

W. J. Collins, formerly employed by Jos. Breck & Sons Corporation, has recently accepted a position with Carter's Tested Seeds, Inc., Chamber of Commerce Building, Boston. This is a branch of the firm of Jas. Carter & Co., London, England.

Luther A. Breck has been admitted to the Joseph Breck & Sons Corporation, and has been chosen vice-president of the company. This young man is the fourth generation of Brecks in this old established Boston house.

HEARING ON POTATO QUARANTINE.

The Secretary of Agriculture has called a public hearing at the Department of Agriculture, Washington, D. C., at 10.00 a. m., December 18, 1913, in order that all persons interested in the importation of the common, or Irish, potato from Canada and Europe may be heard concerning the establishment of a quarantine, to be effective January 1, 1914, forbidding the importation of potatoes from these foreign regions. The contemplated quarantine extends to all parts of Canada and Europe the quarantine at present in effect against the British Isles, Germany, Austria Hungary, Newfoundland, and two islands belonging to France in the St. Lawrence River, called Pierre and Miquelon.

The reason for considering the extension of the present quarantine to all of Europe and to Canada, is the belief that it is necessary in order to prevent the introduction into the United States of the powdery scab (Spongospora subterranea) and other diseases which would seriously affect the potato production of the United States. This disease is reported to be widely prevalent in Ireland and Scotland and in other sections where there is this year a large crop of potatoes.

The powdery scab disease resembles the common scab, which is found widely distributed in this country, although the two diseases are readily distinguished by several characteristics. Affected tubers first show rounded, blister-like spots, a sixteenth to an eighth of an inch in diameter. The skin over the pustules soon breaks, revealing a dark-brown, powdery surface composed mostly of spore balls which serve to propagate the disease. The spots later enlarge and deepen, and frequently coalesce, forming large areas of diseased tissue, which makes the tubers unsightly and greatly reduces their market value.

Powdery scab is introduced into uninfected areas through the use of infected seed potatoes. Although practically unknown in the United States, traces of it have been found in one or two instances and it is important to maintain a close watch to see that it does not become established and further distributed.

The contemplated extension of the quarantine and the call for the hearing are simply coincident and have no direct bearing on the representation made by Mr. T. P. Gill, Secretary of the Irish Department of Agriculture, that potatoes from Ireland be admitted to this country. Mr. Gill's representation was that the danger from the potato wart, which was one of the major purposes of the previous quarantine order, had been so controlled in Ireland that potatoes could be shipped from there without danger of the spread of the potato wart. The members of the Federal Horticultural Board, however, have found that the existence of the powdery scab involves an even greater menace to the crop of this country. As a result, they feel that even if there were no danger from potato wart the quarantine against Ireland would have to be continued to guard against this new disease.

A NEW METHOD OF SUB-IRRIGATION AND DRAINAGE.

Lewis S. Woodruff addressed the Boston Market Gardeners' Association at the meeting held December 6, on "Drainage and Sub-Irrigation."

Mr. Woodruff is the inventor of a new method of combined drainage and sub-irrigation which has aroused considerable interest by reason of the results shown in increasing yield of horticultural land. It reduces the labor of intensive cultivation and, according to those who are using it, absolutely eliminates all danger from prolonged drought.

After enumerating the reasons why drainage pays and explaining some of the scientific effects that drainage has on the texture and plant food supply of the soil, the speaker described his system. He declared that there was no meadow so wet or no hillside so dry that they couldn't be brought to the precise scientific degree of moisture required for the production of the maximum crop. The new system was described as a series of subterranean wells which are so connected by metal pipes that they will be emptied simultaneously at any time that water fills them to a certain height. Water is free to run into or out of these wells through their open bottoms, and subirrigation is afforded to dry lands by supplying water to the upper unit of a series. When the water rises to a certain level in the first well it will run into the next one below, and so on until the whole row of wells is filled. This results in the formation of a subterranean lake under the whole field. The water from this underground lake rises by capillary attraction from one soil particle to another in thin films and keeps the area above it damp all the time. Every once in a while this lake is withdrawn by a sort of syphon action which starts up whenever the water in the wells gets too high and continues until all the wells in the entire system are drained dry. Thereupon the process is repeated.

Mr. Woodruff explained that the sudden removal of the lake draws air into the spaces in the soil vacated by the water. A constant breathing action is thus obtained. He pointed out clearly the advantage of this manipulation of the water and the air within the earth and went into considerable detail as to the resulting improvement in the texture, life, richness and healthfulness of the soil.

MICHELL'S SPIREA CLUMPS

	Doz.	100	1000
Astilbe Floribunda...	$0.85	$ 5.50	$ 52.50
Compacta Multiflora.	.90	6.00	55.00
Philadelphia (new) 30c each.....	3.00	20.00	
Queen Alexandra.....	1.25	7.75	72.50
Gladstone	1.00	6.75	62.00
" Monster...	1.75	11.00	100.00
Japonica	.65	4.75	42.50

DIELYTRA SPECTABILIS

Mammoth Roots, 90c per dozen; $6.00 per 100; $52.00 per 1000.

HEADQUARTERS FOR

CHRISTMAS GREENS

Holly (Loose)
Holly Wreaths
Laurel Wreathing
Lycopodium (Loose)
Lycopodium Wreathing
Native Mistletoe
Mexican Mistletoe

Send for our Handy Flower Seed Order Sheet, if you haven't received a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market Street, PHILADELPHIA, PA.

Mention HORTICULTURE when writing

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

FRESH STOCK **LILIUM GIGANTEUM 8-9 in.**

L. Speciosum, Rubrums, Magnificums and Albums, 8-9 in.

WRITE FOR PRICES

YOKOHAMA NURSERY CO., Ltd. 51 Barclay Street, NEW YORK, N. Y.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

Jack Frost Mats

For Cold Frames

$1.40 each. Burlapped

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany) Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany) Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany) High grade Vegetable Seeds.

H. ZYP & CO., Lisse (Holland) Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

FOTTLER FISKE RAWSON CO.,

LILIES BOSTON

HARRISII

LONGIFLORUM

FORMOSUM

GIGANTEUM

LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

Lily of the Valley

(COLD STORAGE)

Burnett's Selected Dresden Brand conveniently packed in cases of 250, 500 and 1000 each.

Price on application.

BURNETT BROS., - - Seedsmen

98 Chambers St., New York

EARLY WHITE ROMAN

HYACINTHS

Per 100, $1.75

$15.00 per 1000

SPIRAEA

	100	1000
Astilboides floribunda	$4.00	$35.00
Gladstone	6.00	45.00
Japonica	4.00	35.00
" compacta multiflora	5.00	40.00
Palmata	7.00	
Washington	5.00	40.00
Queen Alexandra	8.00	65.00

LILY OF THE VALLEY

PIPS JUST ARRIVED.

Prices on Application.

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. to 54 New York, N. Y.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE. This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE. A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

O. V. ZANGEN

SEEDSMAN, HOBOKEN, N. J.

Mention HORTICULTURE when writing

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

When writing to advertisers kindly mention HORTICULTURE.

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER

AGERATUM.

	Trade pkt.	Oz.
Mexicanum album	$0.10	$0.20
Blue Perfection	.15	.50
Imperial Dwarf Blue	.10	.25
Imperial Dwarf White	.10	.25
Little Dorrit	.15	.50
Swanley Blue	.10	.25

Little Blue Star, trade pkt., 25c.; 3 pkts. for 60c.

BODDINGTON'S MAUVE BEAUTY.
Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt., 10c.; oz., 50c.

ALYSSUM.
White Gem.
A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt., 25c.; oz., $1.00.

	Trade pkt.	Oz.	¼ lb.
Little Gem. Dwarf, best for pots	$0.10	$0.30	$1.00
Carpet of Snow. For hanging baskets and borders	.10	.40	1.25
Sweet (the old variety)	.10	.15	.50

ASTERS.
BODDINGTON'S ASTERS are Famous. Write for catalogue of other varieties and prices.

	Trade pkt.	¼ oz.	Oz.
Aster Early Wonder, White	$0.25	$0.75	$2.00
Aster Early Wonder, Pink	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.
Boddington's Extra Early.

	Trade pkt.	Oz.
Pink	$0.20	$0.85
Light Blue	.20	.85
White	.20	.85
Dark Blue	.20	.85
Crimson	.20	.85
Rose	.20	.85
Flesh Color	.20	.85
Light Rose	.20	.85
Scarlet	.20	.85
Red Lilac	.20	.85
Finest Mixed	.20	.85

BRANCHING ASTERS.
Vick's Branching.

	Trade pkt.	¼ oz.	Oz.
Crimson	$0.25	$0.35	$1.00
White	.25	.35	1.00
Purple	.25	.35	1.00
Violet	.25	.35	1.00
Rose	.25	.35	1.00
Carlson's Branching.			
Lavender	$0.25	$0.35	$1.00
Semple's Branching.			
Shell Pink	$0.25	$0.35	$1.00
Upright White	.25	.35	1.00

Trade pkt. each of the collection of 8 varieties for $1.75.

	Trade pkt.	¼ oz.	Oz.
Vick's New Early Branching, White	$0.25	$0.75	$2.00
Vick's New Early Branching, Pink	.25	.75	2.00

BODDINGTON'S GIANT ANTIRRHINUM.
(Height, 3 Feet.)

	Trade pkt.	Oz.
Coral Red. Striking color	$0.20	$0.75
Carmine. Splendid color	.20	.75
Daybreak. Light pink	.20	.75
Brilliant. Scarlet, golden yellow and white	.20	.75
Cresia. Dark scarlet	.20	.75
Queen Victoria. Pure white	.25	1.00
Luteum. Yellow	.20	.75
Firefly. Scarlet	.20	.75
Romeo. Deep rose	.20	.75
Lilacinum. Beautiful lilac	.20	.75
Mixed	.20	.50

BEGONIA.

	Trade pkt.
Boddington's Crimson Bedder	$0.50
Erfordii. Carmine	.25
Semperflorens	.25

Vernon grandiflora, ½ ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage. .25

CINERARIA.
Cineraria maritima, ½ ft. Trade pkt., 10c.; oz., 50c.
Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt., 25c.; $1.50 per oz.

CENTAUREA.

	Trade pkt.	Oz.
Candidissima	$0.25	$1.50
Gymnocarpa	.15	.50

GREVILLEA ROBUSTA.

	Trade pkt.	Oz.
(Silk Oak)	$0.10	$0.75

COBAEA.

	Trade pkt.	Oz.
Scandens. H. P. Blue	$0.10	$0.30
Alba. White	.20	.75

LOBELIA.

	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue	$0.15	$0.50
Erinus speciosa. Deep blue; trailing	.15	.75
Crystal Palace compacta	.25	2.50
Emperor William compacta	.25	1.00

MIGNONETTE.
Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt., 60c.; ⅛ oz., $1.00; per oz., $7.50.

MYOSOTIS.

	Trade pkt.	Oz.
Eliza Fonrobert. Excellent for pots, blue	$0.10	$0.50
Palustris Semperflorens. Everblooming	.25	2.00

PETUNIAS.
Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt., 60c.; trade pkt., $1.00.
Boddington's Snowball Double. The finest double; pure white. ½ trade pkt., 60c.; trade pkt., $1.00.
BODDINGTON'S CENTURY PRIZE. Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt., 60c.; trade pkt., $1.00.

	Trade pkt.
Boddington's Bar Harbor Beauty, Single. Color a beautiful rose.	$0.25
Boddington's Ruffled Giants. A grand selection of single fringed Petunias	.50
Boddington's Inimitable Dwarf Compact Hybrids, Single	.25
Emperor, Single. Large blossoms, distinct in form, coloring and marking	.50
Howard's Star. Rich crimson with a distinct white star in center	.25
Rosy Morn. Soft carmine pink	.25
Snowstorm. Pure single white	.25
Hybrids, Single Mixed. ½ oz., 50c.	.15

PYRETHRUM.

	Trade pkt.	Oz.
Aureum (Golden Feather)	$0.10	$0.25
Selaginoides. Foliage fine serrated	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved ½ trade pkt., 25c.	$0.40	$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire), 1½ ft.	$0.25	$2.00
Splendens (Scarlet Sage)	.25	1.50
Splendens, Ball of Fire. Very dwarf and early	.25	3.50
Splendens aucubaefolia (Silver-spot)	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf	.25	
Splendens gigantea	.25	
Splendens pendula. Drooping spikes	.25	2.00
Splendens, Zurich. ¼ oz. $1.75	.25	6.00

STOCKS.
Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose	$0.25
Canary Yellow	.25
Crimson	.25
Dark Blood Red	.25
Dark Violet Blue	.25
Dark Purple	.25
Flesh Color	.25
Light Blue	.25
Scarlet	.25
Snow White	.25
Fine Mixed	.25

Boddington's Quality Cut-and-Come Again.
These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White	$0.25
Apple Blossom. Light pink	.25
Peach Blossom. Soft pink	.25
Chamois	.25
Bridesmaid. Rose	.25
Canary. Yellow	.25
Flamingo. Blood red	.25
Blue Jay. Light blue	.25
Violet. Dark blue	.25
Carminea. Crimson	.25

GIANT PERFECTION STOCKS.
White.
Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c, ¼ oz. $1.25, ½ oz. $2.00, oz. $3.75.

QUALITY VERBENAS.

	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed	$0.25	$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye	.25	1.75
Boddington's Mammoth Blue	.25	1.75
Boddington's Mammoth Pink	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort	.25	1.75
Boddington's White (Candidissima). Pure white	.25	1.75
Boddington's Striped. Many colors	.25	1.75
Lemon (Aloysia citriodera)	.25	1.50

VINCA.

	Trade pkt.	Oz.
Alba. White	$0.15	$0.75
Rosea. Rose	.15	.75
Rosea alba. Rose and white	.15	.75
Mixed	.10	.40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SEEDSMAN **342 West 14th St., NEW YORK CITY**

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1502
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Hillsboro, O.—Simon Hider, Morgan bldg.

Ipswich, Mass.—D. B. Tashjian, Market street.

Kansas City, Mo.—Wm. Foith, 3444 Broadway.

Wyomissing, Pa.—Frank D. Shearer, Penn street.

Anderson, Ind.—Stuart & Haugh, Spring House.

STEAMER DEPARTURES

Allan.

Scotian, Boston-Glasgow.....Dec. 25

American.

St. Louis, N. Y.-Southampton..Dec. 19
Philadelphia, N. Y.-S'h'pton..Dec. 26

Atlantic Transport.

Minnewaska, N. Y. London..Dec. 20
Minnetonka, N. Y. London...Dec. 27

Cunard.

Mauretania, N. Y. Liverpool..Dec. 16
Ultonia, N. Y.-Mediter'n'n...Dec. 20
Lusitania, N. Y.-Liverpool...Dec. 24

French.

Caroline, N. Y.-Havre.....Dec. 17
La Provence, N. Y.-Havre...Dec. 17
Chicago, N. Y.-Havre.....Dec. 20
France, N. Y.-Havre.....Dec. 24

Hamburg-American.

Imperator, N. Y.-Hamburg..Dec. 15
Patricia, N. Y.-Hamburg.....Dec. 16

Holland-America.

Noordam, N. Y. Rotterdam..Dec. 16
Ryndam, N. Y.-Rotterdam...Dec. 23

Leyland.

Devonian, Boston Liverpool..Dec. 20
Canadian, Boston-Liverpool..Dec. 27

North German Lloyd.

Kr. Wilh'm II, N. Y.-Bremen.Dec. 16
Pr'ss Irene, N. Y.-Bremen...Dec. 23

Red Star.

Lapland, N. Y.-Antwerp.....Dec. 17
Vaderland, N. Y.-Antwerp...Dec. 24

White Star.

Majestic, N. Y.-S'hampton...Dec. 13
Arabic, Boston-Liverpool.....Dec. 16
Cedric, N. Y.-Liverpool.....Dec. 18
Oceanic, N. Y.-S'hampton....Dec. 20

Fort Smith, Ark.—George Rye, 16 North 6th street.

Columbus, O.—Miller's Flower Shop, 77 E. State street.

Negaunee, Mich.—City Flower Store, Frank Ashleman, proprietor.

Columbus, O.—John Andrew, Union Station. State Street Florist.

Winona, Minn. — Siebrecht Floral Company, 60 West Third street.

New York, N. Y.—M. Sternberg, 102 West 32nd street; Nicholas Chugranis, 1908 7th avenue.

BIG PROFITS

Can be made by buying the quality of Holiday Plants and Supplies specially offered by advertisers in this paper. Look through the ads. and then order at once. Don't wait until stock has been all picked over. SHOP EARLY.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

W. J. Palmer & Son
304 Main Street, Buffalo, N. Y.
Members Florists' Telegraph Asso.

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO FLORISTS 1214 F ST., N.W. WASHINGTON D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y. The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

ST. LOUIS NOTES.

The twenty-fourth annual banquet given by the Missouri Botanical Garden to florists, gardeners and nurserymen, will take place at the University Club, Wednesday, December 17, at 7 P. M.

Frank A. Weber, of H. J. Weber & Son Nursery Co., who is president of the Western Association of Nurserymen, left on Tuesday, December 9, to attend the meeting of his association at Kansas City, Mo., December 10th and 11th. His party included: Wm. Pitkin, Rochester, N. Y.; J. H. Dayton, Painesville, Ohio; Thos. B. Meehan, Dreshertown, Pa.; W. C. Reed, Vincennes, Ind.; H. M. Simpson, Vincennes, Ind.; and J. W. Schuette, St. Louis, Mo.

Visitors: W. P. Craig, Philadelphia, Pa.; Bob. Newcomb, Chicago, Ill.; W. E. Trimble, Princeton, Ill.; M. Adler, Jr., New York, N. Y.

RUSH SERVICE
SEND YOUR
LAST MINUTE XMAS ORDERS
TO THE
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

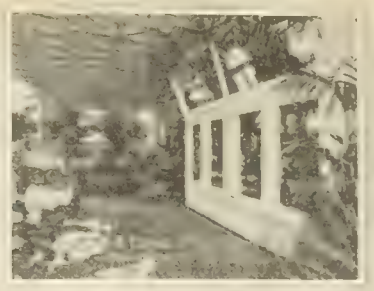
Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

FLORISTS
Everywhere
Send Me
Your Orders
for
BOSTON
Delivery

HOFFMAN
BOSTON





First Class
Stock
ONLY
and
Prompt
Service
Guaranteed

HOFFMAN
BOSTON

SUCCESSFUL ADVERTISING OF A RETAIL FLORIST.

(Read before the New York Florists' Club, by Max Schling.)

"Advertising for a retail florist is a very stretchable expression. Advertising in the broad every-day way in daily papers can hardly be utilized for our regular trade. Our business is a personal business. A young man buys flowers for his mother, for his sister, or what in most instances is much more important to him—for his intended; or a husband for his wife, or they place orders for dinners, weddings or other occasions, where they not only want to have the flowers sent a short time before they are utilized, but where they have to depend that something pretty is delivered on time. They must have a certain amount of confidence in the ability of the business man. The people to whom we mostly cater, the well situated, who are mainly the supporters of the florist business, will not buy for their important occasions flowers to be sent to their friends or relatives from an advertisement, except in a very few instances. They want to have the feeling that their friends shall not be disappointed in what they are sending to them; they do not want to have a decoration for an important dinner from some one stranger, running a chance that it might not be nice; they cannot send the flowers back fifteen minutes before they are used, and order different flowers somewhere else; and the young man will not order a bridal bouquet in a strange place or where he is uncertain whether he might get the very best for his purpose and for his money. To make his work known to these people and to get new customers, a retailer has only one advertising, and that is *demonstration*.

To demonstrate how our flowers keep, how our flowers are sent out, how our flowers are packed, to demonstrate our goods to people who we think should know what we are able to do with our flowers, to people who have influence in society or who have large circles of friends, and especially people who would appreciate attention—such people we have to pick out, and if they do not come to us we have to go to them, and if we cannot go to them ourselves we simply send our messengers to them, and let them demonstrate for us. By messengers I do not mean the kind of two-legged individual whose time we can buy for a

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

When writing to advertisers kindly mention HORTICULTURE.

PARIS LONDON BERLIN

CHRISTMAS DELIVERIES

IN BOSTON AND NEW YORK

We are prepared to deliver in good shape, flowers, plants, or made up work as ordered. Florists at a distance may transfer their orders by mail, telegram or 'phone to us with a certainty of prompt and careful attention.

THOMAS F. GALVIN, Inc.

126 TREMONT STREET COPLEY PLAZA HOTEL BOYLSTON & FAIRFIELD STS.

BOSTON, - - - - MASS.

Also THOMAS F. GALVIN, Inc., Galvin Building

561 Fifth Avenue, New York

few cents in a telegraph office, but instead of spending four to five hundred dollars a month for advertising in daily papers, we simply should watch the market a little closer, and any grower who is overstocked with inexpensive flowering plants or any kind of flowers from the wholesale market which are plentiful at a reasonable price, we should buy for this advertising money and send it out, put up with as much taste as possible in little baskets or boxes, to people who will appreciate little attentions, who will speak about them to their friends, who will show their visitors flowers sent to them from their florist, who may not be big customers themselves, but who will bring others, and it's rarely the case that these little attentions are lost.

This way is open to every florist. It not only helps himself in his business, but it also helps to clear the market at times when it is overflooded, or, if he himself is overstocked it keeps his place clear from over-surplus. It is the very best advertising matter there is, except one, which is less expensive, which brings more admirers of his work because he can then show his real good work; it brings him more prestige, because the press without being paid for it, gives a full account of his labor, and this better advertising is the exhibitions.

I do not speak only about personal experience. I have exhibited a great deal in my life, more abroad than in the United States, and I have seen small firms grow to big firms, only through the right kind of exhibiting, and I have seen firms to be known all over the country over night, just because they knew when to draw the attention of the public to their products. The time given to me for this address is limited, and so I have to stop, but I would like to particularly draw the attention of our fellow members to one fact, that our successful advertising is plain demonstration; that the only way open to us to demonstrate on a larger scale is our exhibitions; and therefore, I believe that we retailers should support the clubs much more even the grower, because we have much more to gain from these demonstrations, and the least thing we can do is to put all our surplus strength to the task to support the grower, and open the gate to successful advertising for both.

A BENEDICTION.

You won't know why that title until you come to the last word of this brief manifesto. Everybody knows Robert Craig. But all don't know how his two boys, William and Robert, are keeping abreast of the times. Not content with growing the finest collection of Christmas plants that can be found in this vicinity—cyclamens, poinsettias, begonias, ardisias, skimmias, and all the beautiful foliage and flowering plants peculiar to Christmas, they have prepared a benediction to the feast in the shape of made-up baskets, pots and pans, beautifully and artistically arranged. This is really an inspiration to the retailer and the benediction part comes in at the wind-up of one's visit. You have ordered everything you need and you are through. That's the point where the "benediction bunch" gets you. Once you see them: "Sure, I want a dozen of that and two dozen of that, and—." Well, we leave the rest to your imagination. Bless you, my children.

Philadelphia. G. C. W.

Obituary

Francis Goble.

Francis Goble, for many years well-known to the trade in Kansas City, died suddenly at Excelsior Springs, Mo., recently. He had been in failing health for some time.

Mrs. F. Warendorf.

Mrs. Fanny Warendorf, one of the oldest florists in New York City, died on Monday morning, December 8. We have no particulars of Mrs. Warendorf's life, other than our meagre personal knowledge. Cruel misfortune struck her during the Civil War, when her home in the South was destroyed, her property all confiscated and she came North with her boys to start life anew with a courage that was as admirable as it was rare. She worked and her sons worked and the names of Fleischmann (her first family) and Warendorf are interwoven into the history of the New York flower business for a generation.

Mrs. Warendorf was a very sweet little lady, beloved of all in the trade for her industry, integrity and her graceful personality.

A SHIPPING CENTRE

Albany, New York, is the logical distributing centre for a very large flower consuming section. Facilities for transportation, north, east, south and west are unexcelled, and when to this fact we add a first class supply and a thorough knowledge of the wholesale flower shipping trade, you can understand that

The Albany Cut Flower Exchange

is well equipped to fill a demand, much of which in the past has been indifferently cared for. So, **if you want**

Flowers, Greens or Supplies for the Holidays or Any Other Time

the right place, the right goods, the right service at the right time, are now at your disposal. **Order Early** and you can include all the popular **Roses** and **Carnations, Lilies, Lily of the Valley** and other **Bulb Stock, Poinsettias, Violets, etc.,** also fine **Holly** and all **Christmas Greens.**

THOMAS TRACEY, Mgr. **ALBANY, N.Y.**

A Christmas Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

A MODEL FLOWER STORE.

The new store of the Rentschler Floral Co., Madison, Wisconsin, recently opened, is pronounced, "the handsomest and most complete retail florist's establishment in the state." The equipment is modern in every detail and from basement to ceiling all fixtures, refrigerators and ice machine, were purchased direct from one manufacturer.

All woodwork is oak-stained forest green, with white marble trim; the ceiling is beamed and stained to match the fixtures. Across the back of the store is the large refrigerator display case with three full length doors. This refrigerator has five large drawers in one end, for the storage of ferns and violets. The interior is lined with French plate mirrors in the back and sides and has a white enamelled ceiling and white tile floor. The doors of the refrigerator have three thicknesses of polished plate glass and are fitted with nickeled hardware. Above the refrigerator, going clear across the store, is an attractive art glass partition.

There are two large, glazed wall



United Refrigerator and Ice Machine Co.'s fixtures in modern florists' store, Madison, Wis.

SAMUEL MURRAY

913 GRAND AVE.

KANSAS CITY, MO.

Member of the Florists' Telegraph Delivery

Holiday Orders For D ivery of Flowers,
Designs or Choice Plants
Given Prompt and Careful Attention

cases, as well as a customer's desk with plate glass stationery compartments, a marble top working counter and refrigerator display counter for showing small cut flowers. The side walls are panelled and fitted with numerous full length plate mirrors.

The floor is tile and a large work room is provided in back of the refrigerator. The work room has a rear entrance, so that supplies can be brought in without going through the show room.

Refrigerator and refrigerator display case are cooled by a 1½-ton United Ice Machine. The ice machine is of such a capacity that a large storage refrigerator can be cooled in addition to the present equipment.

That it is a great advantage to the florist to be able to purchase direct from one manufacturer store fixtures, refrigerators and ice machines, seems to be clearly shown by this beautiful store outfit.



United Refrigerator and Ice Machine Co.'s fixtures in modern florists' store, Madison, Wis.

THE Florists' Supply House of America

H. BAYERSDORFER & CO.
1129 Arch St., Philadelphia, Pa.

BUY YOUR
CHRISTMAS FLOWERS AND
SUPPLIES
FROM HORTICULTURE ADVERTISERS.

NEWS NOTES.

Brookings, S. D.—A. B. Holmes has bought the greenhouse of A. E. Thornber.

Oswego, Ill.—Alva Cooney has purchased the greenhouses of A. L. Truman.

Janesville, Wis.—Joseph Farnsworth has sold his greenhouses at Rockford, Ill., to Edward Amerpohl.

Downers Grove, Ill.—The home of Henry N. Bruns, the Chicago seedsman, was destroyed by fire on Saturday morning, Nov. 29th. The loss is estimated between $4,000 and $5,000, partially covered by insurance.

CUT FLOWERS OF QUALITY

FOR YOUR HOLIDAY TRADE

CARNATIONS
ALL THE LEADING VARIETIES
OF EXCELLENT QUALITY

CATTLEYAS
AND MANY OTHER
VARIETIES OF ORCHIDS

ROSES
CHOICE BLOOMS ALL
THE BEST VARIETIES

LILY OF THE VALLEY
IN LARGE QUANTITIES

AND A FULL LINE OF OTHER STOCK

GEORGE C. SIEBRECHT

WHOLESALE FLORIST

109 West 28th Street, New York

GRAND SPRING EXHIBITION

Under the Auspices of the Horticultural Society of New York and the New York Florists' Club

$12,500 in Premiums

NEW YORK
MARCH 21st TO 28th, 1914

Are you preparing to exhibit? Have you received the preliminary schedule covering plants? If not, write for a copy without delay. Cut Flower schedules ready January first.

Telephone, 7362 Madison Square **JOHN YOUNG,** Secretary, 53 West 28th Street, New York

JOHN YOUNG

Wholesale Florist

53 West 28th St., New York

A Full Line of Well Grown Flowers for Christmas and every other day, including the

FINEST ROSES IN NEW YORK MARKET

As an Advertising Medium Horticulture has NO superior. Because they ALL read it. And they read it ALL.

Xmas Goods in Quantity

NO doubt you are looking for good value in flowers, and we can assure you we are in a position to give you the best to be had in this line. If you buy our stock we are prompted to suggest that you will have that satisfaction of getting quality that is bound to please you and your trade. Therefore take no chances at this season, and let us fill your Christmas orders.

Bronze Galax—Laurel—Holly—Leucothoe—Boxwood

New crop now ready to be shipped immediately on receipt of order.

ROSES---BEAUTY, HADLEY, Mme. RUSSELL, KILLARNEY QUEEN, CARDINAL, SUNBURST, WARD, and other leading varieties, also a choice supply of the New Tea Rose HILDA.

CARNATIONS---Of the most selected quality, in any quantity.

Orchids, Cypripediums, Gardenias, Valley, and other Novelties that cannot be surpassed by any other Floral Establishment.

Order Early and Avoid any Possible Disappointments.

WELCH BROS. CO., 226 Devonshire St. BOSTON, MASS.

Long Distance Telephone Connection.

Moore, Hentz & Nash,

WHOLESALE COMMISSION FLORISTS
55 & 57 West 26th Street,
NEW YORK CITY

HEARTIEST CHRISTMAS GREETINGS

To OUR CONSIGNORS:

We wish to tender our sincere thanks for your consignments during the past year, the uniform GOOD quality of which have made it possible to give all of our many RETAILERS satisfaction, except that we have not had sufficient stock to supply them all the time.

We are in fine shape to handle more of your own stock, or any of your friends or neighbors, that you may feel well enough disposed towards our firm to advise them to ship to us. "So Get Busy."

To OUR RETAIL BUYERS:

We also want to thank you one and all for the support that you have given us this season, and you may rest assured that we will do our utmost to deserve it in the time to come.

NOTE OUR ADDRESS; 756 MADISON SQ. IS OUR TELEPHONE NUMBER.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

When writing to advertisers kindly mention HORTICULTURE.

Florist's Refrigerators

Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

Cut Flowers for Christmas

Ample supplies of all staples in cut flowers

ROSES VIOLETS ORCHIDS
CARNATIONS VALLEY GARDENIAS
EVERYTHING IN SEASONABLE GREENS

Everything in season Long Experience Careful, conscientious service

BERGER BROS. 140 North Thirteenth St.
WHOLESALE FLORISTS **Philadelphia, Pa.**

SELECTED CHRISTMAS PLANTS

We offer, as heretofore a quality of Holiday Foliage and Flowering Plants unexcelled in every particular. They are the product of the most skilled growers for New York market, selected and packed under our personal supervision. No wholesale plant house has ever been able to offer better grown, better selected or better packed material. Our stock includes:

Azaleas in Bloom; Poinsettias, pots or pans; Ericas; Cyclamen; Primulas; Lorraine Begonias; Camellias, etc., in Flowering Plants.
Pandanus Veitchii; Araucarias; Cocos; Kentias; Phoenix Robelenii; Dracaena terminalis and indivisa; Ferns, etc., in Foliage Plants.
Solanums; Oranges; Ardisias, etc., in Berried Plants.
Miscellaneous stock for filling dishes and hampers.

Call and Examine Samples or Write

WOODROW & MARKETOS

Wholesale Plantsmen and Florists

41 West 28th Street, NEW YORK

PERSONAL.

Henry Brown of Pine Meadon, Conn., is at the hospital in Winsted with a serious attack of appendicitis.

Mr. L. H. Soldan, of the New Haven Nurseries, New Haven, Conn., and family, sailed on December 2nd, for an extended trip through Europe.

Charles Yapp has resigned as foreman for the Columbus Floral Company and is now superintendent of the estate of Hon. John T. Millenken, Crescent, Mo.

Boston visitors: J. J. Karins, representing H. A. Dreer, Phila.; Thomas Gibson, Newport, R. I.

New York visitors: William F. Kasting, treasurer of the Society of American Florists, Buffalo, N. Y.; Louis J. Reuter, Westerly, R. I.

Cincinnati visitors: Joe Hill, Richmond, Ind.; William Rodgers of the Miami Floral Co., Dayton, Ohio; A. J. Vanderhorst, St. Mary's, Ohio; C. P. Dudley, Parkersburg, W. Va.; C. L. Humphreys, Zanesville, Ohio.

Philadelphia visitors: George W. Schroyer, Lancaster, Pa.; James Brown, Coatesville, Pa.; J. W. Grandy, Norfolk, Va.; Mrs. Lou Dundare Moore, Lancaster, Pa.; Miss Heckman, Lancaster, Pa.; A. Leuthy, Roslindale, Mass.

XMAS **CHRISTMAS** XMAS

HOLLY. Extra Fine Quality, per case, $5.00

BOXWOOD, per case of 50 lbs...	$8.00
LAUREL FESTOONING, per 100 yards	$5.00 and $6.00
PRINCESS PINE FESTOONING, per 100 yards	$6.00 and $8.00
PRINCESS PINE, per pound	.08
LAUREL WREATHS, well made, per dozen	$2.50 to $3.00
MISTLETOE, per pound	.50
25 pounds at	.40
SOUTHERN WILD SMILAX, per case 50 lbs	6.00
DAGGER AND FANCY FERNS, per 1,000, A1 quality	1.50
NEW CROP BRONZE AND GREEN GALAX, per 1,000	1.00
SPHAGNUM MOSS, per bale	$1.50 and 2.00
Per sack	.40
IMPORTED BRONZE MAGNOLIA LEAVES, per hamper	1.50
NATIVE GREEN MAGNOLIA LEAVES, fine quality (per carton)	1.50
LEUCOTHOE SPRAYS, per 100...	1.00
Per 1,000	7.50

WRITE WIRE TELEPHONE

We carry a large stock of **FLORISTS' SUPPLIES** on hand and can fill orders at a moment's notice. All orders receive prompt and personal attention. Satisfaction guaranteed. A square deal to all

HENRY M. ROBINSON COMPANY

2 Winthrop Square and 34 Otis Street, BOSTON, MASS.

Telephones—Main 2439, 2616, 2617, 2618, Fort Hill 25290

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

CHRISTMAS SPECIALTIES

All Guaranteed for Quality as in Past Seasons

CUT FLOWER DEPARTMENT

Lowest Boston market rates will prevail for the Holidays as is our unvarying custom. We can supply first-class fresh stock that will give satisfaction, carefully packed and shipped according to time and manner directed.

Our Roses

Are the best in New England

We have in quantity the following popular varieties:

Russell, Cardinal, Ward, Dark Pink Killarney, Taft, Double White Killarney, Killarney Queen, My Maryland, Richmond, White and Pink Killarney, Miller, Milady, Perle, Lady Hillingdon, Fire Flame, Lily of the Valley, Lilies, Violets, Carnations, Poinsettias, Paper White, Stevia, Peas, Pansies, etc., etc.

in quantity as needed.

FINE ASSORTMENT OF FLOWERING PLANTS

GREENS AND SUPPLY DEPARTMEMT

WILD SMILAX—$6.00 per large case.
HOLLY—$5.00 per case; $9.00 for two cases; five or more cases at $4.00 per case. **Holly Wreaths** $12.00 per 100.
BOXWOOD—finest quality, $7.50 per case.
MISTLETOE—Fine berries, $1.50 per package of 4 lbs.
LAUREL WREATHS—16 in., $20.00 per 100. **Laurel Roping**—6c. per yard. **Elder Berries**—15c. to 20c. per bunch.
GALAX—$1.25 per 1000; case of 10,000, $7.50.
HARDY FERNS—Top quality, $1.50 per 1000.
PRINCESS PINE WREATHS—12 to 14 in., $2.00 per doz.
CHRISTMAS RED BERRIES—large bunches, 15c. per bunch.
VELVET POINSETTIAS—with leaves and long stems, per doz., $2.00.

Princess Pine and Laurel in bunches.
Red Ruscus Domestic—50c. per lb.; imported, 90c. per lb.

A full line of all Supplies, Vases, Fern Boxes, Baskets, Foil, Wire, Immortelles, etc., etc., too numerous to mention. Modern, Fancy and Tumbler Baskets our specialty. Send for quotations on **anything** you need for the holidays or any other time.

N. F. McCARTHY & CO.

WHOLESALE FLORISTS TEL. MAIN 5972, 5973, 5974, 5002 **31 Otis St. and 112 Arch St., Boston**

BOXWOOD

15 cents per pound

Very choice quality, no waste. Place your order now, and we will make shipment when wanted. We have some on hand now, and can make delivery on receipt of your order.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the **BOSTON**

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI December 4			CHICAGO December 8			BUFFALO December 8			PITTSBURG November 24		
American Beauty, Special	20.00	to	[illegible]	30.00	to	40.00	40.00	to	50.00	20.00	to	35.00
" " Extra	[illegible]	to	20.00	15.00	to	20.00	[illegible]	to	[illegible]	15.00	to	20.00
" " No. 1	[illegible]	to	15.00	10.00	to	15.00	[illegible]	to	[illegible]	[illegible]	to	15.00
Killarney, Extra	6.00	to	[illegible]	6.00	to	8.00	[illegible]	to	[illegible]	6.00	to	10.00
" Ordinary	3.00	to	5.00	2.00	to	4.00	[illegible]	to	6.00	3.00	to	[illegible]
Richmond, Hillingdon, Extra	8.00	to	[illegible]	6.00	to	8.00	[illegible]	to	[illegible]	8.00	to	10.00
" " Ordinary	[illegible]	to	6.00	3.00	to	5.00	4.00	to	[illegible]	4.00	to	[illegible]
Maryland, White, Taft, Sunburst, Extra	[illegible]	to	10.00	6.00	to	[illegible]	8.00	to	[illegible]	8.00	to	10.00
" " " " Ordinary	[illegible]	to	5.00	3.00	to	5.00	4.00	to	6.00	[illegible]	to	5.00
Russell, Shawyer	.....	to	.....	.....	to	.....	10.00	to	[illegible]	.....	to	.....
Carnations, Fancy	[illegible]	to	5.00	[illegible]	to	[illegible]	.....	to	3.00	[illegible]	to	5.00
" Ordinary	2.00	to	[illegible]	[illegible]	to	[illegible]	2.00	to	2.50	2.00	to	3.00
Cattleyas	60.00	to	[illegible]	60.00	to	75.00	40.00	to	50.00	[illegible]	to	75.00
Cypripediums	.....	to	.....	.....	to	.....	12.00	to	[illegible]	.....	to	.....
Lilies, Longiflorum	8.00	to	10.00	8.00	to	[illegible]	10.00	to	12.00	8.00	to	10.00
Callas	6.00	to	[illegible]	6.00	to	8.00	10.00	to	[illegible]	6.00	to	8.00
Lily of the Valley	3.00	to	4.00	[illegible]	to	[illegible]	3.00	to	4.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	2.00	to	3.00	3.00	to	[illegible]	2.00	to	[illegible]	2.00	to	[illegible]
Freesias	2.00	to	[illegible]	.....	to	.....	.....	to	.....	2.00	to	3.00
Chrysanthemums	5.00	to	20.00	5.00	to	[illegible]	[illegible]	to	[illegible]	5.00	to	20.00
Violets	.75	to	[illegible]	[illegible]	to	.75	.75	to	[illegible]	.75	to	[illegible]
Daisies	.75	to	[illegible]	[illegible]	to	[illegible]	.....	to	[illegible]	.75	to	[illegible]
Sweet Peas	1.00	to	[illegible]	.75	to	1.00	.50	to	1.00	[illegible]	to	2.00
Carnations	25.00	to	30.00	25.00	to	50.00	[illegible]	to	.....	25.00	to	30.00
Adiantum	1.00	to	[illegible]	1.00	to	[illegible]	[illegible]	to	[illegible]	1.00	to	[illegible]
Smilax	[illegible]	to	15.00	12.00	to	[illegible]	.....	to	15.00	12.00	to	15.00
Asparagus Plumosus, Strings	40.00	to	50.00	[illegible]	to	60.00	[illegible]	to	[illegible]	40.00	to	50.00
" " & Spren. (100 bchs.)	25.00	to	40.00	[illegible]	to	40.00	[illegible]	to	[illegible]	25.00	to	40.00

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 80

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.15. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

When writing to advertisers kindly Mention HORTICULTURE.

Please mention Horticulture when writing.

Flower Market Reports

BOSTON Roses have been scarce for the past week, but the outlook for the coming few weeks is excellent and the quality of flowers now being received is very acceptable. Prices are following the quality upward on all roses, and fancy things like Killarney Queen, Russell and special Sunburst readily bring prices rarely equalled by tea roses in any recent years. American Beauty is in fair supply and very nice quality. Carnations are particularly good stock, now that chrysanthemums have seen their finish, and the quality is beyond criticism. Pink Delight is forging ahead and taking the place so long occupied by Enchantress. Violets are very scarce and are bringing record figures, the doubles selling up to $1.00 per 100 and singles $1.50, with no Christmas quotations less than $2.00, which is a rather dangerous proposition, judging from past experience. Southern spray asparagus is being received in heavy invoices, but much of it is heated in transportation and drops its foliage, yet even at that it has broken the market badly on the locally-grown product.

BUFFALO Trade was much on the quiet side during the past week. There was plenty of everything. Chrysanthemums are still in the market, mostly Nonin, Dean and the Joneses, though the sales have not been of the best. There are plenty of carnations and more of the white than colored; the same in roses. Narcissi are still an over-supply and sales very weak. This has been the poorest season on record for the sale of narcissi. The wholesaler and retailer cannot move them at any price. Violets are plentiful and not selling. Lilies are moving a trifle better. Holly and other greens are in the market and busy times are soon looked for.

CHICAGO Since Thanksgiving very few days have seen a normal amount of business. There has been no special demand for cut flowers, locally, and as the unseasonable weather has been general, the shipping trade has fallen off likewise. Then the quality of the great bulk of stock coming in was not at its best and buyers were cautious about investing. Much concern was felt for the Christmas stock during the rainy spell and the change to cooler weather on Sunday, the 7th inst., was hailed with joy, though a hard wind was blowing and no sunshine appeared. Roses are, in general, rather a doubtful proposition, for no one can tell just how the warm, damp weather may have affected the buds now on the plants. Carnations were inclined to be a little soft, but the drop in temperature has saved the day for them, though there will not be any too many to meet the demand. Violets are picking up again and miscellaneous stock is fair. The shortage in Beauties continues, and it is not expected to ease up till after the holidays. There is plenty of green, including some holly of fair quality.



SPECIAL ROSES

FOR CHRISTMAS TRADE

We will have some special Killarneys (pink and white) and My Marylands of unusually choice quality, splendid large, well colored buds, long stiff stems, at $20.00 and $25.00 per 100. Also plenty of short and medium lengths.

Write for Our Christmas List

RIBBONS AND SUPPLIES. Many new patterns in exclusive Ribbons. If you have not received one of our new catalogues, advise us immediately and we will mail you a copy.

BUSINESS HOURS:
FROM 7.30 A. M. TO 6.00 P. M.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. | NEW YORK 117 West 28th St. | BALTIMORE Franklin & St. Paul Sts.

WASHINGTON 1216 H. St. N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	BOSTON December 11			ST. LOUIS December 8			PHILA. December 8		
Am. Beauty, Special	40.00	to	50.00	35.00	to	40.00	35.00	to	40.00
" " Fancy and Extra	25.00	to	35.00	15.00	to	20.00	20.00	to	30.00
" " No. 1	15.00	to	20.00	10.00	to	15.00	10.00	to	15.00
Killarney, Extra	8.00	to	12.00	6.00	to	10.00	6.00	to	8.00
" Ordinary	4.00	to	6.00	4.00	to	5.00	3.00	to	5.00
Richmond, Hillingdon, Extra	4.00	to	12.00	8.00	to	12.00	8.00	to	12.00
" " Ordinary	3.00	to	6.00	5.00	to	6.00	4.00	to	6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	16.00	8.00	to	10.00	10.00	to	15.00
" " " " Ordinary	4.00	to	8.00	4.00	to	6.00	3.00	to	8.00
Russell, Shawyer	8.00	to	15.00	8.00	to	10.00	4.00	to	10.00
Carnations, Fancy	3.00	to	4.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.50	to	2.00	2.00	to	2.50	2.00	to	3.00
Cattleya	40.00	to	50.00	40.00	to	50.00	40.00	to	60.00
Cypripediums	12.00	to	15.00	12.00	to	15.00	12.00	to	15.00
Lilies, Longiflorum	10.00	to	12.00	12.00	to	15.00	10.00	to	12.50
Callas	8.00	to	12.00	10.00	to	15.00	10.00	to	12.50
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00
Freesias	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00
Chrysanthemums	8.00	to	20.00	10.00	to	25.00	4.00	to	15.00
Violets	.75	to	1.00	.40	to	.75	.50	to	1.00
Pansies	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50
Sweet Peas	1.00	to	1.00	.50	to	.75	.40	to	1.00
Gardenias	25.00	to	50.00	15.00	to	25.00	17.00	to	25.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.00
Smilax	8.00	to	12.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	40.00	to	50.00	40.00	to	50.00
" " Sprays Bchs	40.00	to	75.00	15.00	to	25.00	40.00	to	50.00

CINCINNATI The cold and more or less cloudy weather of this week has caused a general shortening of the receipts, and, as a consequence, has brought about better market conditions with higher prices in a number of items. Yet, although the supply has been cut down and at that probably only temporary, it is fully adequate for present requirements, for the demand is not large. Roses are in a good and sufficient supply. American Beauties are still far short of requirements. The carnation supply is good and most all stock of any good quality is proving good property. Chrysanthemums are about out of the market. Only a few of the late varieties coming in. Narcissi are in an over-production and the market is glutted with them. The call for violets is picking up, but is none too good as yet. Lilies are plentiful and find a fair market. The demand for lily of the valley and orchids has fallen off somewhat since the fall wedding season is over. Sweet peas sell well. The decorative green market shows a good call for wild smilax.

ST. LOUIS This market since Thanksgiving has been in good condition. The weather has been rather too warm for the retailers. At the wholesale markets we find plenty of roses in all varieties except Beauties. Carnations are in great plenty. Violets became scarce owing to the warm weather. Chrysanthemums are at an end for this season. All the general variety of stock is in fine and plenty of it.

(Continued on page 845.)

HOLIDAY SUPPLIES.
To have them Right and In Time
The Best in the World can be had
from the Advertisers in this paper.
ORDER THEM NOW.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE { 608 / 609 } MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. { 1583 / 5893 } Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist
SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Dec. 6 1913	First Half of Week beginning Dec. 8 1913
American Beauty, Special	35.00 to 50.00	25.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	12.00 to 15.00
" " No. 1	10.00 to 15.00	10.00 to 12.00
Killarney, Extra	5.00 to 10.00	6.00 to 12.00
" Ordinary	3.00 to 4.00	3.00 to 5.00
Richmond, Hillingdon, Extra	5.00 to 12.00	10.00 to 20.00
" " Ordinary	3.00 to 4.00	3.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	6.00 to 12.00	10.00 to 20.00
" " " " Ordinary	4.00 to 5.00	4.00 to 5.00
Russell, Shawyer	15.00 to 25.00	15.00 to 20.00
Carnations, Fancy Grade	3.00 to 5.00	3.00 to 5.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr.
WHOLESALE ONLY
76 Maiden Lane, ALBANY, N. Y.
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. L. ROBINSON, V.-Pres. JOSEPH MARGOLIS, Sec'y
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST....NEW YORK CITY
Special Attention to the Shipping Trade

CLEAN BOXWOOD

Positively the best on the market. All sprays are selected and contain no surplus wood. Put up in light 50 lb. cases.
100 lbs., $15; 500 lbs., $70; 1000 lbs., $130.

McCALLUM CO., - - - - Pittsburg, Pa.

WHOLESALE FLORISTS
A. L. Young & Co.
54 West 28th St. New York.
Consignments Solicited

TO GROWERS

Determining the financial responsibility of your consignee is as important as selecting the best flowers to grow. We have the best of references for the ten years we have been in business, from our bankers and our growers, which we will cheerfully furnish upon application.

We desire a few more shippers and if you consign to us we can assure you that we will most conscientiously endeavor to justify whatever confidence may be reposed in us.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 843)

NEW YORK

Business since our last issue has been rather erratic. The demand up to and including Saturday of last week was very good. Since then it has been rather quiet and this condition may be expected to continue until the Christmas activity begins. Roses are enjoying a very lively market as compared with other staples, and the demand for novelties and choice grades should be very encouraging to those growers and dealers who are trying to uplift the business in an enterprising and progressive way. Violets are very much in the dumps here, some days selling out at prices not fit to quote. Carnations are coming into their own, now that the chrysanthemums have got through. Lilies have doubled in selling price and now bring returns that will yield a decent profit to the grower. Cattleyas are very scarce and will so continue until the Trianaes get well under way. Southern smilax is now an over-supply and the prices realized are only about half of what has been considered normal. Roman hyacinths sell well, but paper white narcissi are slow at low figures. Reverting to the roses, the centre of interest seems to locate around Taft, Ward, Sunburst, Shawyer and Killarney Brilliant.

PHILADELPHIA

Conditions have remained rather stable for the past week. While the influx of stock was rather less, demand seemed to slacken off also. On Monday there seemed to be quite some difficulty in filling orders, with the usual peevish result among uninformed retailers. Perhaps we should not say uninformed, but the "don't-wish-to-be-informed." Anyway, the "kicks" were there, but the wholesalers are used to that. Tea roses were more plentiful. Carnations were scarcer. Chrysanthemums are pretty nearly a past number, Nonin and Eaton are the best, with a few belated Bonnaffon not much good. Single violets have become more plentiful and prices took a sudden drop. Doubles seem to keep on a pretty even keel. Nothing of interest in the orchid market. Supplies are less and demand seems to correspond. In the minor items like lily of the valley, bouvardia, mignonette, daisies and snapdragon the supply seems to be excellent, but there is nothing that calls for a waste of printers' ink in that connection. The price of timothy seed seems a much more important subject. The outlook on the sweet pea market is very encouraging. These are very good now and bid fair to improve both in quantity and quality right along. Maidenhair fern seems to be in better demand. Adiantum hybridum has advanced to $1.50.

John Young advertises the finest roses in New York market. We have seen them and think the claim is well-founded. They are grown by Reuter, Westerly, R. I.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 6 1913	First Half of Week beginning Dec. 8 1913
Cattleyas	40.00 to 75.00	40.00 to 75.00
Cypripediums	..... to 12.00	..... to 12.00
Lilies, Longiflorum	6.00 to 12.00	8.00 to 12.00
Callas	..... to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 5.00
Paper Whites, Roman Hyacinths	1.00 to 3.00	1.00 to 2.00
Freesias	..... to	..... to .....
Chrysanthemums	4.00 to 25.00	4.00 to 25.00
Violets	.30 to .40	.25 to .40
Daises	.50 to 1.00	.50 to 1.00
Tweet Peas	.... to 1.00	..... to 1.00
Oardenias	15.00 to 35.00	15.00 to 35.00
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings per 100	25.00 to 35.00	25.00 to 35.00
" " & Spren 100 bunches	8.00 to 15.00	8.00 to 15.00

PERSONAL.

J. A. Muller, representative of the Julius Roehrs Co., Rutherford, N. J., sailed on the Kaiserin Augusta Victoria, Thursday, Dec. 11, on a business and pleasure trip to Europe.

All will regret to learn that a tinge of sorrow has come into the home of Peter Duff, Orange, N. J., at this time especially, his mother-in-law having met with a severe stroke of apoplexy.

John W. Everitt and wife sailed on the Lusitania, last week, for a two months' visit to the old home at Herts, England. His last words before sailing away were Merry Christmas to all the "boys," especially those at Glen Cove, L. I.

Alex. Mackenzie, for the past ten years head gardener to Percy Chubb at Glen Cove, L. I., has this week taken charge of Mrs. J. P. Morgan's estate at Cragston, Highland Falls, N. Y. This will give Mr. Mackenzie more chance to show his well-known abilities as an all-round gardener.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to **List of Advertisers** will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

ANEMONE

Anemone Japonica—Strong, field-grown plants in 8 varieties, $3.50 per 100. PALISADES NURSERIES, Sparkill, N. Y.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Oukerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., New York.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For Christmas
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

BOILERS—Continued

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburgh, Pa.
For page see List of Advertisers.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Jersey-Grown Callas.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

Conard & Jones Co., West Grove, Penn.
Swastika Brand Cannas.
For page see List of Advertisers.

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PLANTS

J. A. Peterson & Sons, Cincinnati, Ohio.
For page see List of Advertisers.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
Chrysanthemum Stock Plants.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

C. Winterich, Defiance, Ohio.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZECH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

J. W. Keller Co., Inc., Brooklyn and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE

Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

DRACAENAS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 799

FERNS—Continued

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Ernest Oechslin, River Forest, Ill.
Ferns for Dishes.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Lend-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., Boston, Mass.
For page see List of Advertisers.

American Importing Co., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers.

FLOWERING PLANTS

A. L. Miller, Brooklyn, N. Y.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FREESIA

Arthur T. Boddington, New York City.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

FUNKIAS—VARIEGATED

Henry A. Dreer, Inc., Philadelphia, Pa.

GALAX

Michigan Cut Flower Co., Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

GLADIOLUS

Brookland Gardens, Woburn, Mass.
S. E. Spencer, Prop.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Pierson U-Bar Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York
For page see List of Advertisers.

HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOLIDAY PLANTS WANTED

C. C. Trepel, Brooklyn and New York City.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.
For page see List of Advertisers.

The H. A. Stoothoff Co., Mt. Vernon, N. Y.
Aphicide Powder.
For page see List of Advertisers.

JACK FROST MATS

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

LILY BULBS—Continued

Yokohama Nursery Co., Ltd., New York.
Lilium Giganteum and Speciosum Bulbs. for Forcing.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Cold Storage.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers

R. & J. Farquhar & Co., Boston.
Forcing Shrubs and Plants.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.

F. E. Conine Nursery Co., Stratford, Conn.
Evergreens and Deciducus Trees.

50,000 Transplanted Shrubs—Almost given away; prices are so low. In all sizes from lining out stock to specimens. Ask for list. PALISADES NURSERIES, Sparkill, N. Y.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

PALMS, ETC.—Continued

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

J. M. Thorburn Co., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

Phlox—Perennial, Prof. Schleiman, Mrs. Jenkins, Miss Lingard, Indian Chief and others. Strong, 2-year field roots, $3.50 per 100; $30.00 per 1000, mixed, all colors, $2.00 per 100, $15.00 per 1000. PALISADES NURSERIES, Sparkill, N. Y.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers

PLANT AND BULB IMPORTS

August Rolker & Sons, New York City.
For page see List of Advertisers

McHutchison & Co., New York City.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POTASH

German Kali Works, Inc., New York City.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

RAFFIA

McHutchison & Co., New York City.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
For page see List of Advertisers.

McCray Refrigerator Co., Kendalville, Ind.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
For page see List of Advertisers.

S. J. Reuter & Son, Inc., Westerly, R. I.
New Rose Prince E. C. De Arenberg.
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasch Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

T. J. Grey Co., Boston, Mass.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

For List of Advertisers See Page 799

SEEDS—Continued

Burnett Bros., New York City.
For page see List of Advertisers.

J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SNAPDRAGONS

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots. $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.
For page see List of Advertisers

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Spiraea Clumps.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
J. Bolgiano & Son, Baltimore, Md.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets—Strong, field-grown plants, $5.00 per 100. Double Hardy English, Princess of Wales, La France, Gustav Wermig (Summer Violet). PALISADES NURSERIES, Sparkill, N. Y.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, 131 W. 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55 W. 26th St.
For page see List of Advertisers.

J. K. Allen, 106 W. 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55 and 57 West 26th St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED

In an up-to-date retail greenhouse establishment **A MAN CAPABLE OF GROWING** good roses and a general knowledge of carnations and pot plants. **GOOD POSITION** for man of hustle and ability.

J. M. WARD & CO.,
Peabody, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

HOLIDAY SUPPLIES

To have them Right and in Time The Best in the World Can be had from the **Advertisers** in This Paper.

ORDER THEM NOW

In writing to Advertisers kindly mention Horticulture

NEW OFFERS IN THIS ISSUE

ACACIAS.
Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A CHRISTMAS SHIPPING CENTER.
Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

ADVANCE VENTILATING APPARATUS AND GREENHOUSE FITTINGS.
Advance Co., Richmond, Ind.
For page see List of Advertisers.

AMERICA GLADIOLUS BULBS FOR FORCING.
Brookland Gardens, Woburn, Mass.
For page see List of Advertisers.

BODDINGTON'S QUALITY FLOWER SEEDS.
Arthur T. Boddington, New York.
For page see List of Advertisers.

CARNATION PRINCESS DAGMAR.
Patten & Co., Tewksbury, Mass.
For page see List of Advertisers.

CHRISTMAS FLOWER DELIVERIES, BOSTON AND NEW YORK.
Thos. F. Galvin, Inc., Boston and New York.
For page see List of Advertisers.

CHRISTMAS GREENS.
Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRISTMAS GREENS AND SUPPLIES.
Henry M. Robinson & Co., Boston, Mass.
For page see List of Advertisers.

CHRISTMAS GREETINGS.
Moore, Hentz & Nash, New York
For page see List of Advertisers

CHRISTMAS PLANTS.
Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers

CHRISTMAS PLANTS.
William A. Riggs, Auburndale, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.
A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANTHEMUMS—ELMER D. SMITH & CO.'S NOVELTIES.
A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

CHRISTMAS PLANTS AND FERNS.
John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

COLD STORAGE LONGIFLORUM LILY BULBS.
August Rolker & Sons, New York.
For page see List of Advertisers.

CUT FLOWERS OF QUALITY.
George C. Siebrecht, 109 West 28th St., New York.
For page see List of Advertisers.

EARLY WHITE ROMAN HYACINTHS.
J. M. Thorburn & Co., New York.
For page see List of Advertisers.

FLORISTS' CHRISTMAS SPECIALTIES.
N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Hoffman, Boston, Mass.
For page see List of Advertisers.

FLOWERS FOR CHRISTMAS.
Berger Bros., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS.
R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see last of Advertisers.

GREENHOUSE CONSTRUCTION.
J. C. Moninger Co., Chicago, Ill.
For page see List of Advertisers

GREENHOUSE CONSTRUCTION.
Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers

GREENHOUSE CONSTRUCTION AND HEATING.
Bird Steel-frame Greenhouse Co., Inc., New York City.
For page see List of Advertisers

HART'S HANDY HANDLES.
Geo. B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HEADQUARTERS FOR AZALEAS AND CHRISTMAS PLANTS.
William W. Edgar Co., Waverly, Mass.
For page see List of Advertisers.

HOLIDAY FLOWERS BY TELEGRAPH.
Samuel Murray, Kansas City, Mo.
For page see List of Advertisers.

IMP PLANT FOOD AND SOAP SPRAY.
Eastern Chemical Co., Boston, Mass.
For page see List of Advertisers.

INTERNATIONAL SHOW AT NEW YORK.
John Young, Sec.
For page see List of Advertisers.

KING'S IDEAL BOILERS.
King Construction Co., No. Tonawanda, N. Y.
For page see List of Advertisers.

LAST MINUTE XMAS ORDERS.
M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

LILIUM MACULATUM (HANSONI).
Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.

NEW FRENCH HYDRANGEAS.
Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers.

NEW WINTER-FLOWERING SNAPDRAGON.
H. Huebner, Groton, Mass.
For page see List of Advertisers.

NOVELTIES IN CHRYSANTHEMUMS, ROSES AND CARNATIONS.
Totty, the Novelty Man, Madison, N. J.
For page see List of Advertisers.

ORCHIDS, GARDENIAS, DAISIES, NEW ROSES AND OTHER CHOICE AND SPECIAL FLOWERS.
Jas. McManus, New York.
For page see List of Advertisers.

POWER AND SPRAY PUMPS.
C. J. Jager Co., Boston and Providence.
For page see List of Advertisers.

RAMBLER ROSES FOR FORCING AND GARDENING.
M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

ROEHRS' CELEBRATED VALLEY.
J. Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

ROSES FOR CHRISTMAS.
John Young, New York City.
For page see List of Advertisers.

SEEDS, BULBS, PLANTS, GARDEN TOOLS AND SUNDRIES—POULTRY SUPPLIES.
Burnett Bros., New York.
For page see List of Advertisers.

SPECIAL ROSES FOR CHRISTMAS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

BIG PROFITS

Can be made by buying the quality of Holiday Plants and Supplies specially offered by advertisers in this paper. Look through the ads. and then order at once. Don't wait until stock has been all picked over.

SHOP EARLY

Bird Steel-Frame Greenhouse Company, Inc.

DESIGNERS AND BUILDERS OF

Greenhouses, Conservatories, Palm Houses and Sun Parlors. Heating Engineers

SPECIALISTS IN BOILER CONSTRUCTION AND HEATING SYSTEMS FOR GREENHOUSES

General Sales Office: 15-17 WEST 38TH STREET, NEW YORK CITY

Cable Address: "STEELHOUSE," N. Y. Telephone 5673 GREELEY

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Elmhurst, L. I.—John Miesem, one house.

Delevan, Ill. — N. O. Caswell, two houses.

Bergen, N. Y. -William H. Randolph, house 16 x 42.

Milford, Mass. — W. D. Howard, house 65 x 300.

Westerly, R. I. — Mr. Schumann, range of houses.

Red Bank, N. J. -Fred'k Frelinghuysen, conservatory.

Philadelphia, Pa. — E. Woltemate, addition, 15 x 30 ft.

Tulsa, Okla. — Sand Springs Greenhouses, 3 houses each 36 x 180.

Kansas City, Mo.—Burton B. Crane, house 22 x 67; The Rosery, additions.

Chestnut Hill, Phila. — Charles L. Homer, conservatories and potting house.

A WORD TO THE WISE FROM

FOLEY

Some few months ago my many good friends were advised of my temporary inability to properly handle business entrusted with me on account of track elevation.

It now affords me great pleasure to advise you that the latch string will hang out as in "Ye olden times" at our new location, where we expect to be shipping goods about January 1st, 1914. We are now ready to make you estimates, sketches and suggestions. Kindly write us advising your requirements.

Thanking my old friends for many favors shown in the past and asking a continuance of same in the future, I remain,

Yours truly,

The Foley Greenhouse Mfg. Co.

Philip J. Foley
31st St. and Spaulding Ave.
CHICAGO

THOSE RED POTS

Ask the Florist That Uses Them

HARRY BALSLEY

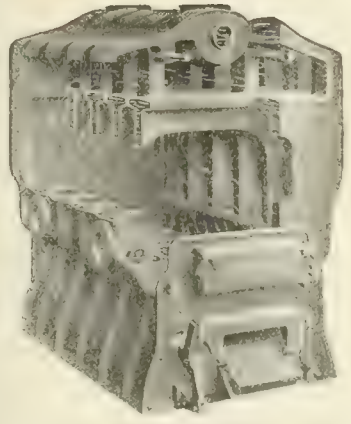
Detroit Flower Pot Co., Detroit, Mich.

Mention HORTICULTURE when writing.

Here is the Hot Water Boiler You Have Been Looking For

KING IDEAL BOILERS

25% More Efficient



On account of the T-shaped sections (see cut) there is a greater proportion of the heating surface exposed to the direct action of the fire than is possible in other boilers.

About 85% of the work done by a cast iron boiler is accomplished by this directly exposed heating surface.

The King has 25% more of this directly exposed surface—so it's 25% more efficient.

Let Us Tell You More About It.

KING CONSTRUCTION CO.

28 King's Road, No. Tonawanda, N.Y.

Makers of King Iron Frame Greenhouses

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

STANDARD FLOWER POTS

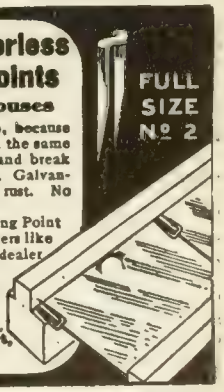
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

Dreer's Peerless Glazing Points

For Greenhouses



Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

THE FLORISTS' HAIL ASSOCIATION OF AMERCA, insurer of 39,000,000 sq. ft. of glass.

For particulars address

John G. Esler, Sec'y Saddle River, N.J.

REPORT OF THE SECRETARY OF AGRICULTURE FOR 1913.

David F. Houston, Secretary of Agriculture, on December 8, published his annual report for the year 1913. The report, which contains only 58 pages, differs from previous reports in that, instead of merely reviewing the agricultural situation, it presents in summary many broad economic questions. Throughout the report strong emphasis is placed upon co-operation between the Department of Agriculture and other Federal departments and the state agricultural agencies to promote co-ordination and eliminate duplication of effort. The keynote is getting the Department's information in all fields more directly and in more valuable form to the people. It is recommended that the congressional seed distribution as now conducted be discontinued, and that constructive work in securing and distributing new and valuable seeds and plants be substituted.

Plan to Reorganize the Department.

To promote co-ordination, allow greater latitude in carrying out of projects, and to establish a more logical handling of regulatory work and research, investigation and demonstration work, the Secretary will ask the Congress in the coming estimates for authority to prepare a plan for reorganizing, redirecting and systematizing the work of the Department as the interests of economical and efficient administration may require. This plan would be submitted in the fiscal estimates for 1916. It is believed that the Department can best carry on its functions and carry its information to the people it seeks to serve, probably by having its work conducted in five or six main groups such as a research service, a regulatory service, a state relations service, a rural organization service, a forest service, a weather service, and others as special occasion might warrant.

Marketing.

In many directions further production waits on better distribution, and the field of distribution presents problems which raise in very grave ways the simple issue of justice. Under existing conditions the farmer does not get what he should for his product; the consumer is required to pay an unfair price, and unnecessary burdens are imposed under the existing systems of distribution. No one can see offhand just what part of the burden is due to lack of systematic planning or inefficiency, economic waste, or to unfair manipulation. The report outlines the projects in this field as covering marketing surveys, methods and costs of marketing, including available market supplies in given production areas, demand at consuming centers, cold and other methods of storage, marketing systems and prices, and costs of wholesale and retail distribution of farm products. Other studies in this branch include: Investigation of transportation problems and the elimination of waste in shipment, study of city marketing and distribution, study of grades, and finally, co-operative production and marketing.

Increases Recommended.

Increases in the appropriations for the next fiscal year are recommended as follows:

$250,860 for extending the work of eradicating animal diseases, feeding and breeding live stock, and for dairying and the enforcement of the meat-inspection law.

$45,660 for the introduction and breeding of new plants, the control of plant diseases, and for improving the methods of crop production, especially cereals.

$143,577 for the classification of agricultural lands and the survey of homesteads in the national forests.

$60,441 for extending investigations of the handling, shipping and storing of poultry, eggs and fish.

$24,420 for investigating fertilizer resources, soil fertility, and the chemical and physical properties of soils.

$71,000 for extending investigations of insects attacking deciduous fruits, cereal and forage crops, and forest trees.

$90,000 to enforce the migratory-bird law.

$57,000 for gathering crop forecasts and estimates.

$113,500 for road management and road building and maintenance.

$144,000 for investigations of the marketing and distribution of farm products.

$50,000 for live stock and other demonstration work in the sugar-cane and cotton areas in Louisiana.

A decrease of $37,340 is made in the funds of the Weather Bureau, made possible by the increased efficiency shown in handling its work.

BUSINESS TROUBLES.

The Oleson & Lunden Company, of Plantsville, Conn., has filed a petition of bankruptcy in the United States District Court. For more than ten years the company has been carrying on the florist business in Plantsville. Judge Thomas Welch is handling the affairs of the company at present, and it is expected that a settlement with the creditors will be made in the course of time. The firm was made up of John Oleson and Philip Lunden.

Look Through the New Offers This Week. Page 850.

APHICIDE POWDER
(FORMERLY THE FUMIGATING KIND)
KILLS ALL APHIS
$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.
WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU
If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.
THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW
POWER AND SPRAY PUMPS
OF ALL KINDS
A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY
13-15 Custom House Street Boston 3 Canal Street Providence R I

IMP
PLANT FOOD
SOAP SPRAY
HIGHLY EFFICIENT
ALL DEALERS
EASTERN CHEMICAL CO.
BOSTON

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.

Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

NICOTIANA is a 12% nicotine solution specifically adapted for fumigating or vaporizing greenhouses.

NICOTIANA is vaporized over small lamps or by painting on steam pipes

VAPORIZING with **NICOTIANA** fills the house with nicotine fumes which will effectively destroy the insects intended for.

FUMIGATING with tobacco paper or tobacco dust fills the house with smoke which is not beneficial to plant life.

Quarts, $1.50 — Gallons, $4.50

For sale by seedsmen and supply houses

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE *FUNGINE*

SCALINE *VERMINE*

British Distributors:

British & American Fertilizing Company

Liverpool, England

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27& 29 OCEAN ST., ∴ BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In writing to Advertisers kindly mention Horticulture

WHEN YOU BUY—GET A KROESCHELL
"THE BOILER OF GENUINE EFFICIENCY"



Expressions from men who know Boilers

THE LEADING GROWER IN VERMONT.

I have the Kroeschell Boiler six years; it is heating 17,000 sq. ft. glass. No other but a Plate Boiler for me.
(Signed) H. M. TOFMAN
RANDOLPH, VERMONT

ONE OF BOSTON'S WELL KNOWN GROWERS.

The Kroeschell has been the place of four cast iron boilers at a big saving in coal. We are using it now for the 3rd year. The longer we use it the better we like it.
(Signed) A. B. KNOWLTON
NORTH CRAFTON, MASS.

THE QUALITY PLACE OF BOSTON.

Regarding the Kroeschell, it is the best we have ever had and satisfactory in every way. It heats up expeditiously, quick and has saved us considerably already in the price of fuel. When we are in need of another boiler we will [illegible] the first consideration.
(Signed) WM. W. EDGAR CO.,
WAVERLEY, MASS.

A BIG MAN IN THE FLORICULTURAL WORLD.

The Kroeschell Boiler I installed last year [illegible] from 10 p.m. to 6 a.m. without attention. I do not have the least trouble to keep temperatures in the coldest weather. The boiler has given entire satisfaction.

The Kroeschell is the best boiler we have ever installed.
(Signed) CHARLES TOTTY,
MADISON, NEW JERSEY.

THE WORLD'S GREATEST MUSHROOM PLANT.

We spent $100,000 in building and equipping the largest modern mushroom plant in the world. We purchased in every instance the best of everything we could get, and the fact that we installed a Kroeschell Boiler to furnish our heat is sufficient evidence of our opinion of same.

Since installing this boiler and operating it we have never had any reason to change our opinion.
(Signed) FALMOUTH
MUSHROOM CELLARS, INC.,
FALMOUTH, MASS.

CAN SHIP ANY SIZE AT ONCE

TELEPHONE OR TELEGRAPH
YOUR ORDER AT OUR EXPENSE

Kroeschell Bros. Co.

444 W. Erie St., CHICAGO, ILL.



$35,000 Private Estate Greenhouse and Palmhouse Built by Us

THOSE FAMOUS MONINGER GREENHOUSES NOW SOLD AT WINTER PRICES.

If you expect to build a greenhouse or conservatory you can have one of our celebrated types for less money than you would pay other makers. If you are located within 1000 miles of Chicago get our freight paid proposition. We will furnish materials and erect the houses at a price that will open your eyes. You can't buy a better house anywhere at any price. You can get it here and you will be satisfied. Estimates and sketch plans are free. Send for our figures now.

CLOTH BOUND GREENHOUSE ENCYCLOPEDIA,
384 PAGES, FREE FOR 18 CENTS IN STAMPS

John C. Moninger Co.—Chicago

912 BLACKHAWK STREET

EVERYTHING FOR THE GREENHOUSE

METROPOLITAN MATERIAL CO.

PATENTED
Greenhouse Boilers and Construction Material

Please Send for Catalogue and Prices.

1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Greenhouse Materials FURNISHED AND ERECTED

IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



E. C. Kopper, Gardener.

An Interesting Development

MR CLARK WITBECK of Schenectady, wanted flowers any time and all the time.
The only answer to that was a greenhouse. So we built him the 50 feet wing this way.
Then he wanted more flowers, so the other wing was added and now he grows so many, that he sells a goodly lot.

In telling you this, we had in mind several instances where the owner allows the gardener a percentage on such profits. It may be your employer would do the same if you should suggest his building more houses, with that in mind.
It's just a suggestion, but worth trying.
Our catalog yours for the asking.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

CYPRESS

SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

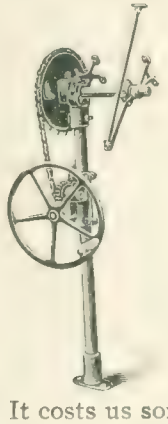
Box 9, National Union Building
Washington, D. C.

FOR SALE

Good as new. Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.

ROBT. ROSS JONES, Harrisburg, Pa.

Mention HORTICULTURE when writing



ADVANCE

Ventilating Apparatus and Greenhouse Fittings

are so much better that all of the real critical buyers will have no other kind.

ADVANCE Service Pays

When your order is received, unless special parts are ordered, we ship the same day it reaches us. It costs us something to do this of course, in consideratton of the amount of stock we must carry and the kind of men we must employ. But we know that our customers appreciate such service and lots of orders are directed to us on account of our prompt service.

WE WANT YOUR BUSINESS

Our prices are reasonable and the same to each and every one of our customers. Send for catalog and prices.

ADVANCE CO.

542 N. 14th Street — Richmond, Indiana

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Jumbled Together

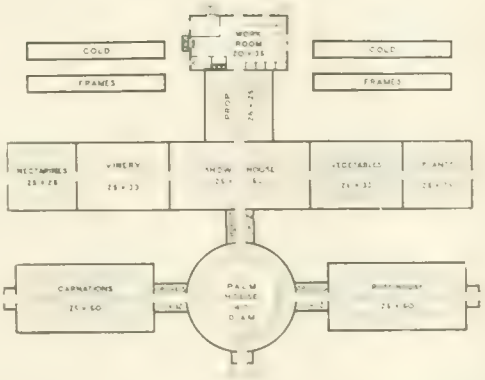
IF there is one thing more than another that will make a greenhouse cost too much, it's a jumbled together plan.

Such a plan costs too much, for three well defined reasons.

First: It multiplies the erection costs because of its complications and uncontrollable construction difficulties.

Second: It makes the heating both expensive to install and costly to operate.

Third: It makes working the houses unhandy, difficult, requiring more help.



In attempting to get "something different"; or "something original"; gardeners and superintendents are frequently led into inducing their employers to adopt badly jumbled plans.

If you could sit right down in this chair by my desk and look over with me the plans of the houses both large and small erected by this company for the past five years, you would be tremendously impressed by their *absolute practicalness* and *striking simplicity.*

Simplicity and practicalness have always been noticeable characteristics of U-Bar work.

This is so, even when it comes to big schemes like the St. Louis Botanical Gardens costing hundreds of thousands of dollars.

Take this plan shown of a range at Pittsburgh—see how perfectly balanced it is. How downright practical.

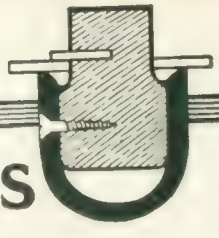
As president of this company, I am a crank on *first having the plan right.* Furthermore, I shall continue to be a crank. Associated with our company is an architect of enviable reputation, who contributes knowledge and experience in securing to the building itself, those choice touches here and there that are so distinguishable a feature of U-Bar houses.

Our representatives are not only thoroughly grounded in greenhouse matters, but also are technically familiar with flowers and shrubs, so that when desired they will gladly be of assistance to you in giving the greenhouse a setting worthy of a U-Bar house.

Yes U-Bar houses cost more—but they are worth all they cost— and more.

Send for catalog—or send for us—or both.





U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE MONTREAL

HORTICULTURE

Vol. XVIII. DECEMBER 20, 1913 No. 25



EREMURUS HIMALAICUS

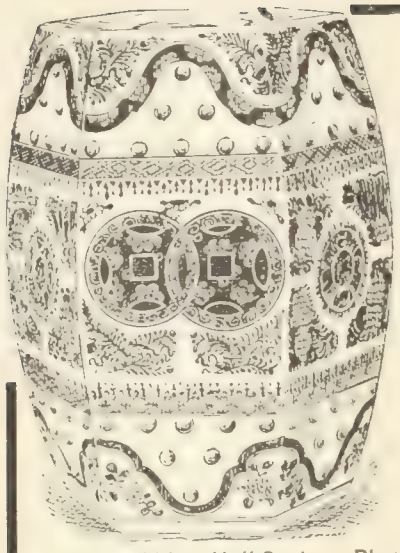
Courtesy Mt. Desert Nurseries.

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00



Canton China Hall-Seat or Plant Pot Stand.

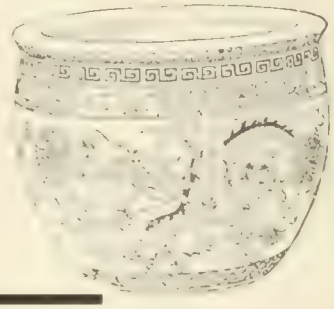
Plant Pots and Pedestals

We invite the attention of intending buyers, or those interested in seeing the newest productions of the potters' art, to our importations of English, French, German, Japanese and Chinese **Plant Pots** or **Jardinieres,** selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to $150.00 each.

Dinner Ware. On the 3d and 4th floors will be found an **unequalled exhibit of Dinner Sets** all values from the inexpensive upwards. Superb designs of **Fish Sets** and **Game Sets.**

CANTON CHINA PLANT-POT.



Our stock of China and Glass occupies ten floors and more than 9,000 bins including everything in this line pertaining to the **Home, Hotels, Clubs, Public Institutions, etc.**

Wholesale and Retail

Jones, McDuffee & Stratton Co.

Crockery, China and Class Merchants

33 Franklin Street, - - Boston, Mass.

New Red Rose "FRANCIS SCOTT KEY"

A Seedling of Cardinal Crossed with an Unnamed Red Seedling

Flowers large to very large, with sixty and more petals opening to a high center. Averages longer and stiffer stems than any Hybrid Tea Rose I know of under glass. A hardy and easy grower. Every florist can grow it. *It does not need coaxing or boosting. Stock limited. Plants Ready for Delivery from now on.*

Strong plants, own root, 2 1-2 in. pots, $30 per 100; $7 for 12 plants: $12 for 25 plants. Cash with order

JOHN COOK 318 N. CHARLES STREET BALTIMORE, MD.

CHRISTMAS PLANTS

IN ELEGANT SHAPE. NOTHING FINER EVER OFFERED

POINSETTIAS, 5-in. pots, 50c. each; 9 and 10-inch pans, $2.00 and $3.00 each.
BEGONIAS, Lorraine and Cincinnati, $1.00 to $3.00 each
PRIMULAS, Chinensis and Obconica, $25 per 100. CYCLAMEN, 50c. to $2.50 each.
FERNS, all the popular kinds from assorted small dish ferns up to specimen CIBOTIUMS.
ARAUCARIAS, PALMS, DRACAENAS, etc., etc., all sizes.

AZALEAS

A FULL STOCK OF VERVAENEANA, PETRICK, FIREFLY, ETC., 50c. to $15.00 A-1 GOODS.

A. M. DAVENPORT, WATERTOWN MASS.

SOMETHING WE WANT YOU TO KNOW

If you are a grower of Chrysanthemums you have grown the varieties sent out by Elmer D. Smith & Co. of Adrian, Mich. If you feel as we do you'll buy their novelties for the reason that you don't dare not buy them or you'll miss something. When Chrysolora was sent out you remember you ducked at the price and got in late and the other fellow beat you to it.

We have the Eastern agency for Elmer D. Smith & Co. and their novelties will be disseminated by us in the future simultaneously with the western delivery from Adrian, Mich. All these novelties are described in our catalog which is yours for the asking. Placing orders with us means the same date of shipment from a nearer shipping point.

A. N. PIERSON, INC., Cromwell, Conn.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren St., New York, N. Y.

Write for quotations

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.50 per 100; $30.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

CHRISTMAS

Azaleas, Ardisias, Ferns

Fine Goods. Send for Prices.

JOHN McKENZIE

NORTH CAMBRIDGE, MASS.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

NOW READY—

Hohmann's Lily of the Valley
sample cases per 1000.....$16.00

Lilium Giganteums
7/9 -inch, 300 per case..... 18.00
8/10-inch, 225 " " 20.00

LIST OF ADVERTISERS

Page
Advance Co.....892
Albany Cut Flower Ex.....882
Allen, J. K.....882
Am. Importing Co. 879
Anderson, S. A..878
Aphine Mfg. Co.889
Aschmann, G....869
Ayres Co., S. Bryson 875
Badgley, Reidel & Meyer.....882
Balsley, Harry..890
Barrows & Son..860
Bayersdorfer, H. & Co. 879
Bay State Nurseries 872
Bird Steel-frame Greenhouse Co.891
Bloomingdale's. 876
Bobbink & Atkins 872
Boddington, A.T.874
Bolgiano & Son, J. 875
Boston Florist Letter Co.....880
Breck, J. & Sons.875
Breck - Robinson Nurseries 872
Breitmeyer's, J. Sons 876
Brookland Gardens 873
Bryan, Alonzo J.873
Burnett Bros....875
Burpee, W. A. & Co. 874
California Florist 877
California Seed Growers Asso.875
Chicago Carnation Co. 880
Cook, John.....858
Cooke, Geo. H...878
Childs, John Lewis 869
Consumers Fertilizer Co.....889
Clarke's, D.Sons.876
Cottage Gardens Co. 871
Cowee, W. J....880
Craig, Robt. Co.873
Dards 876
Davenport, A. M.858
Dawson, H. S...860
Detroit Flower Pot Co.....880
Dorner & Sons Co. 860
Dreer, H. A.873-890
Dunlop, John H.877
Dysart, R. J....880
Eastern Nurseries 860
Edwards Folding Box Co.....880
Elliott's, W.Sons.874
Eppstein, Julius.877
Ernest, W. H...890
Esler, J. G.....891
Eyres 876
Farquhar, R. & J. & Co.....872
Felthousen, J. E.869
Ford, M. C. 882
Ford, W. P.....882
Forrest,Frank H.877
Fottler, Fiske, Rawson Co....875
Freeman Orchid Co. 871
Framingham Nurseries 872
Froment, H. E. 882
Galvin, Thos. F. 877-878
Gasser, J. M. Co.877
Goodsell, P. H..872
Grey, T. J. Co..875
Gude Bros. Co..877
Hail Association.891
Hall & Robinson 877
Hart, Geo. B.879-883
Heacock, Jos....871
Heinecken, Otto.875
Henderson, A...869
Hess & Swoboda.876
Hews, A. H. & Co. 890
Hill, E. G. Co..880
Holland Nurseries 871
Hilfinger Bros...890
Holm & Olson..876
Hudson Carbon Co. 889
Jacobus, S. & Sons 891
Jager, C. J. Co.888
Johnson, J. Oliver 875
Jones, McDuffee & Stratton Co.858
Jones, Robert Ross 891
Joy Floral Co...877
Kasting, W. F. Co. 883
Kervan Co. 882
Keller, J. B.Sons.876
Keller, J. M. Co.860
Kelway & Son..874
King Construction Co.....890
Komada Bros ..879
Kramer, F. H...877
Kroeschell Bros.891
Kuebler, W. H..882
Lager & Hurrell.871
Lemon Oil Co...888
Leonard Seed Co.875
Leuthy, A. & Co.860
Loechner & Co..859
Lord & Burnham Co. 892
MacMulkin, E...877
May & Co., L. L.878
McCarthy, N. F. Co. 880
McConnell, Alex.876
McHutchison & Co. 860
McKenna & Son, P. 877
McKenzie, John.859
McManus, Jas...882
Michell's Seed House 874
Michigan Cut Flower Ex. .880
Millang, Chas....882
Millang, Frank..882
Montreal Floral Exchange. 882
Moore, Hentz & Nash 882
Murray, Samuel.876
National Nurseryman 872
Nicotine Mfg. Co.889
Niessen, Leo. Co.880
N. Y. Stable Manure Co.....889
Oechslin, Ernest.871
Oechslin, Frank.859
Ouwerkerk, P...871
Palmer, W. J. & Son 878
Park Floral Co..876
Parshelsky Bros.891
Patten & Co....869
Pennock - Meehan Co 881
Penn the Florist.877
Pierson, A. N...859
Pierson, F. R.Co.878
Plant Food Co., 20th Century..889
Poehlmann Bros. Co. 880
Pollworth, C. C.876
Pratt, B. G.....889
Pulverized Manure Co.....889
Quaker City Machine Co.....891
Randall's Flower Shop 878
Read & Keller..882
Reid, Edw.....883
Reinberg, Peter.880
Reuter's 878
Rice, M. Co.....877
Riggs, Wm. A..860
Robinson Co., H. M. 868-882
Roehrs, J. Co...871
Roland, Thomas.873
Rolker, A. & Sons 873-890
Rosery, The.....876
Rowe, Harry C..879
Sander & Son...871
Scott, John.....860
Scott, Robt. & Son 871
Schling, Max....877
Schwake, Chas. & Co.....859
Sheridan, W. F..882
Sharp, Partridge & Co.....891
Shepards Garden Carnation Co..869
Shinn, Warren..874
Siebrecht, Geo. C. 882
Siggers & Siggers 890
Skidelsky, S. S. & Co. 871
Slinn, B. S.....883
Smith, P. J.....882
Smith & Co., E. D. 872
Smith, W.& T.Co.872
Smyth, Wm. J..876
Sprague, J. H..871
Stearns, A. T. Lumber Co....891
Stoothoff, H. A. Co. 888
Stumpp, Geo. M.876
Totty, Chas. H..873
Thorburn, J. M. & Co. 875
Traendly & Schenck 882
United Refrigerating & Ice Machine Co.....879
Valentine. J. A..876
Vincent, R., Jr., & Sons Co....869
Van Assche, F..891
Wants, For Sale.887
Ward, R. M. & Co. 860
Weber, F. C.....877
Welch Bros 880
Whittier & Co., W. B. 872
Wilson, J. J. Seed Co. 875
Wood Bros 880
Woodrow & McKelvey 883
Yokohama Nurseries 875
Young, A. L.....883
Young, John 882
Young & Nugent.876
Zangen, O. V....875
Zinn, J. A.....877
Zvolanek, Ant. C.875

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 884,885,886,887

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per case of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

RALPH M. WARD & CO.

THE LILY HOUSE

Not How Quite Not How Good

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

RIGHT HERE

CHRISTMAS PLANTS. TOP NOTCHERS

AZALEAS, 50c. to $3.00 each.
POINSETTIA pans of four and five, $1.50 each; single stems, $3.00, $4.00, $6.00 and $9.00 per dozen.
CYCLAMEN, 75c. to $1.00 each.
BEGONIAS, Cincinnati and Lorraine, 7-in. pots, $15.00 per doz.
PRIMULAS, Sinensis and Obconica, $3.00 per doz.
FERNS, Boston and Whitmani, all sizes, 50c. up.
Cash or Reference from unknown correspondents.

William A. Riggs, Auburndale, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS
On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Parkias Street Nurseries Roslindale.—Boston, Mass

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2890 Bedford BROOKLYN, N. Y.

RAFFIA

Natural—Four Standard Grades.
Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.
Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100. $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Calceolarias

These plants have now arrived at their season of most rapid growth and those which seemed to stand still during the hot weather are now growing apace. Calceolarias are cool subjects and succeed best in a house with a temperature of 45 degrees, kept well up to the light and supplied with plenty of fresh air. A low temperature, as long as frost is held away, in their case is no hindrance to progress. Never attempt to grow them in a warm house or they will speedily become weak and sickly and the prey of their arch-enemy, green aphis. When potting use a light compost; one containing half loam and flaky leaf-mold, with a little old cow manure and sand added will suit young plants. The leaf-mold can be reduced and more cow manure used at the final potting.

Care of Carnations

From now on the subject of watering is one upon which volumes might be written and yet not be fully covered, as among a large number of growers many different conditions are daily arising that cannot possibly be met by any arbitrary written directions. The best time to water is in the early forenoon of a bright day, at which any necessary spraying to counteract wilting or syringing to destroy spider, should be done. Sometimes every indication points to a fair day, when by eleven o'clock, the sun is obscured and plants have been wet by spraying. This is a bad position in which to be caught, but the best must be made of it. Use every available means that can be employed to dry out the surplus moisture as soon as possible. Under no circumstances close the ventilators and raise the temperature. There must be a circulation of air and this is best accomplished by having on a crack at the ridge. The night care and supervision will now give the grower more or less worry until he gets his winter staff into full training again.

Marguerites

In order to flower these plants well they should be allowed to become pot-bound. Marguerites are now making rapid growth, and as the pots are well filled with roots they will like plenty of water and feeding twice a week. When doing any repotting, use a tolerably rich compost, comprising two-thirds loam, one-third screened dry cow manure, some soot and fine bone. Ram the soil firmly in the pots. The present is a suitable time to put in a good batch of cuttings. A propagating bench which will root carnations or chrysanthemums is equally good for marguerites. These cuttings, if kept potted along, will make nice, bushy stock in 6-inch pots by late spring. Plants in pots for Easter flowering will still need some pinching. This may be discontinued after January 15. Give them any necessary repotting using a rich compost, and be sure to always give them an abundance of water at the roots.

Pandanus Veitchii

A decorative subject of rare beauty and considerable importance commercially is Pandanus Veitchii. If too much encouraged in its growth, it rapidly gains size and vigor but at the same time loses in great measure its fine variegation, to which much of its value is due. Pandanus Veitchii, even without excessively high culture, gradually throws off its silvery coloring as it grows older and attains size. It is hard to keep these older plants in good shape and after they have reached a size beyond the seven or eight-inch pot and the greater part of their foliage has reverted in color to a green of undesirable tint, it is time to put them out of commission. By cutting off the top or crown of these old plants as far down as the wood is soft and flabby, we induce the remaining stumps to put forth quite a number of highly colored side shoots and suckers from the roots. When these have gained some substance and strength, they are taken off, if possible with some roots already formed, and potted into small pots using very sandy porous loam. For winter temperature keep from 65 to 70 degrees at night.

Sowing Fern Spores

Now is a good time to make a sowing of spores for the filling of fern pans, small vases, etc. The seed pans should be thoroughly cleaned to insure that no germs of moss or fungus are left. A great deal of what is known as damping off has its origin from this source, being the work of a minute fungus. Fill the pans about one-third full with crocks, larger ones in the bottom and those on the top finely broken, and over this place a layer of moss, then fill to within an inch and a half of the top with ordinary potting soil. Over this place half an inch of soil which has been subjected to a baking process long enough to kill all vegetation in it. Use a compost of loam, leaf mold and sand in about equal portion. The surface soil in the pan should be pressed down and made as smooth as possible. A good soaking of water should be given and allowed to drain off before sowing the spores. Sow these thinly—I may say very thinly. Don't cover the spores but place over the pan a close-fitting pane of glass. The glass must be turned frequently to prevent the moisture from dripping which would throw the spores all in little bunches. Start in a close atmosphere from 60 to 65 degrees.

Protecting Outside Bulbs

All bulbs that are planted outside in our northern latitude will need winter protection of long coarse manure, litter, leaves or evergreen boughs. This should not be spread over the beds before the ground is frozen quite solid and where the winter is mild it can be left off entirely or until such time as the severe weather sets in. Bulbs that are in flats and are stored outside will need also some protection as we get hard weather.

Mr. Farrell's next notes will be on the following: Sweet Peas; Easter Lilies; Mignonette; Orchids; Propagation; Starting Bulbous Stock.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Vines

Prior to planting in the borders all vines are grown in pots from which they can be removed at any season if due care is given them. It is not wise to transfer them during the growing season for not only is there a big risk of burning, etc., but the roots have to be left cramped up just as they were in the pot. This is not a desirable way to have them. Although they will make other roots through the border it is by far the best to have the first strong roots spread out near the surface. The age of deep planting of the vine has passed. It is recognized by all that it was a mistake to bury them away down deep, the reason for which is very plain. Have the roots near the surface and all feed that is given them can be used without having to wait for it to work its way down through a quantity of soil. To get the roots straightened out will be quite a job if not gone about right. It is an easy matter to shake the soil off some things that have roots of no great length but it is surprising how long the roots of a well grown vine are, even in a small pot. If you attempt to shake these out some are sure to get broken. The only way to accomplish the job with a minimum of breakage is to wash out the soil and straighten out the roots at the same time. Soak the ball first and then force the water into it which will take little time to remove most of it. The network of roots must then be worked out carefully with the fingers. When ready for planting take off the top soil about four inches deep and spread the roots out evenly similar to the branches of a peach tree. Be very careful when placing the soil on them as any roughness will nulify all the pains that have been taken. Use the finest soil that is to be found first so that it will get down between the fine roots. If there is a quantity near the bottom of the cane shake the whole thing which will cause some soil to work down. Do not plant too close to the wall; remember the cane will soon be a rod of some size and leave plenty of room for this expansion. Ram over the border before it is watered.

Planting Peach and Nectarine Trees

What has been said about planting a vine applies to the planting of peach and nectarine trees. These are not always grown in pots; some are trained as they grow in the open ground and generally they have better roots for planting than pot grown stuff. These will have been chopped off with a spade or shovel and to ensure their healing up at an early date cut them again with a sharp knife. These subjects will have much shorter roots than the vine at the time of planting but the same care is required and the same method adopted to free them from the soil and the maze of network formed by the roots in a pot.

Stem Troubles of Melons

To those who do not have to combat these troubles all the following will seem unnecessary. There are some soils and localities that seem endowed with just the right ingredients to grow melons to perfection without any trouble whatever. Then, on the other hand, there are those soils of a very different character and something or another seems to crop up from time to time to worry the grower. I know of an instance where two estates joining each other furnished these very conditions between them. It was no trouble to grow melons on the one while the neighbor had all the trouble that was possible. No, you could not say it was the way they were handled for the same thing has prevailed for years with different men handling them. Personally I put it down to the soil, but after several more years of experience I would like to try them over again. The old proverb says "Never trouble trouble until trouble troubles you." Another one we all know is "never look for trouble" but where stem trouble prevails I would suggest we do look out and use all the preventives we know of. In the first place, my opinion is that some of it is brought on by planting too deep either when repotting or planting in the border. Do not bury the ball a fraction of an inch if it can be helped for while a few more roots will grow out of that portion of the stem between the seed leaf and the top of the seed pot they will be worthless if the stem goes wrong. At this season of the year the advantage of planting on the small mounds will be demonstrated for it will keep the stem drier than if it were planted on a level border. Do not water over these stems in dull weather, which will keep it dry excepting when syringing. If the first two or three whorls of leaves are gradually cut away so that the sun's rays may play on the stem it will seldom go wrong and if it does in dull weather it is the very best thing to dry it up when we do get sunlight. If decay sets in during one of the dull spells (these are generally the times it shows up) scrape off the decayed portion down to good tissue with a piece of wood which has been made to resemble a knife. This is better than using a knife especially if it is caught in time. Bad cases can have the decay cut out to half the stem and they will generally heal. After removing this decay rub in some newly slacked lime with the finger; this will help to dry it up. Doubtful cases can have some lime blown on to them which will often be enough to arrest the progress of further decay. A close watch should be kept at this time of year or some plants will be lost. Rose growers are up against it at times but there is nothing more perplexing than to get stem trouble in a melon house and know at the same time there is a little spider getting ahead. Add to this several days dull weather—cold perhaps making a quantity of fire heat necessary and consequently more moisture is needed and you may be excused for scratching what may someday be a "bald pate."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Fumigating

With the houses in full bloom, and many buds just showing color care should be exercised not to use any fumes too strong. Have them only moderate, and in fact weak, and sooner fumigate a little oftener. Tobacco stems should not be used at all, especially in houses where white roses are in bloom. They will be the first to show the poor centers, although the colored varieties will bleach soon after exposure. Where spraying takes the place of fumigation, the same rule should be applied, and the spray not used the full strength. Rather use it moderately strong and oftener. The main thing is, never neglect to fumigate or spray, but keep right at it to keep the insects down, and not give them any chance at all to gain a foothold. Once they are established it will take a great struggle to free the plants of them again. It is well to aim to smoke before the plants are to be syringed—that is the night before. The syringing following will help clean out the pests. Have the plants quite wet, for should the air be too dry the smoke will not be so effective, and at the same time it will be more harmful to the plants and flowers.

The New Year

The new year will soon be here, and with it many new resolutions that we will pledge ourselves to keep, only to break them the very first week. It is well not to make too many, only a very few, and then stick to them like glue. Have them all read so that when they are carried out the whole place will be the better for it. Thus let one be: Resolved, That there shall not be any overblown roses the coming year. Then live up to it. Often on the average place many roses are ruined because of improper cutting. Others can follow, and be made to suit the prevailing conditions.

Planning and Planting

There is nothing better than having all the planting plans made in advance, and if they have not been completed as yet, now is the time to do the planning. No doubt the houses will be planted in much the same way, with the same varieties, and yet there may be houses that do better when planted to a different variety once in a while. Among this year's novelties we find a few that promise to be very good and are well worthy of a trial, even on a small scale, although after seeing some of the varieties growing at the places of the firms that send them out it may be safe to plant them quite extensively, as the market seems to take the new varieties much better than the old, if they are grown well. The reason for this can only be given as the people's taste for something different all the time. Many of the well-to-do customers will not mind the prices as long as they can get something out of the ordinary.

The Propagator

The time will soon be here now when this house will be the busy end of the place; so it is well to make away with the work as fast as is possible. Whatever is to be done will have to be done sooner or later so better do it at once and have it over with. Have the sand in place after the benches have been well whitewashed, and turn the heat on a few days before any cuttings are to be inserted. In many places there will be a large amount of cuttings already in the sand but as a rule the real busy time does not start until after the turn of the year. Where only a small number of plants are wanted, it is well to wait until the end of January or the early part of February before making any cuttings. If they are made too early the care of the plants for the long time will amount to a considerable figure. Then, too, the wood will have a little more sun into it, as the days will be longer, and as a rule it will root much easier.

Care of Propagating Wood

By this time you will know which plants are to furnish you with the wood for the coming year, and to save a lot of trouble it will more than pay you to exercise especial care to keep this wood absolutely clean and free from all insect pests, as well as all plant diseases. Select the houses that have bloomed the most, as there is nothing better than to add the floriferous quality to the plants as much as possible.

Cover Illustration

Eremurus himalaicus, which forms the subject of our cover illustration this week, is easily the regal flower of the spring garden. A group of these stately plants against a background of conifers or other dark foliage adds a character and dignity to the garden which no other plant can rival. The picture was taken in the Mt. Desert Nurseries, Bar Harbor, Me., which fact is a good guarantee of the hardiness of this plant.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XVIII DECEMBER 20, 1913 NO 25

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Eremurus himalaicus.

NOTES ON CULTURE OF FLORISTS' STOCK—Calceolarias—Care of Carnations—Marguerites—Pandanus Veitchii—Sowing Fern Spores—Protecting Outside Bulbs—*John J. M. Farrell*..... 861

FRUIT AND VEGETABLES UNDER GLASS—Planting Vines—Planting Peach and Nectarine Trees—Stem Troubles of Melons—*George H. Penson*..... 862

ROSE GROWING UNDER GLASS—Fumigating—The New Year—Planning and Planting—The Propagator—Care of Propagating Wood—*Arthur C. Ruzicka*.. 863

COVER ILLUSTRATION..... 863

TWO TOTTY NOVELTIES, Illustrations..... 865

A TALK ON FLOWERS—*C. S. Harrison*..... 865

CHRYSANTHEMUMS—*C. A. Johnston*..... 870

SEED TRADE..... 874

OF INTEREST TO RETAIL FLORISTS:

New Flower Stores—Steamer Departures..... 876

Flowers by Telegraph..... 877

FLOWER MARKET REPORTS—Boston, Chicago, Philadelphia, St. Louis..... 881

New York..... 883

WEED EXTERMINATION—*G. E. Stone*, Illustrated.. 888

OBITUARY—Pearl V. Winters—D. McGillivray..... 890

MISCELLANEOUS:

A Kind Word..... 869

New French Hydrangeas, Illustration..... 870

Oncidium splendidum..... 870

Catalogues Received..... 874

Philadelphia Notes..... 874

New Corporations..... 874

Business Troubles..... 877

Chicago Notes..... 878

Personal..... 878

News Notes..... 878-890

Free Horticultural Lectures at Boston..... 883

Fires..... 883

Greenhouses Building or Contemplated..... 890

Patents Granted..... 890

Anglo American Exposition, London, Illustrated.... 866

CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston—St. Louis Florist Club—Nassau County Horticultural Society—Cook County (Ill) Florists' Association—Connecticut Horticultural Society—American Carnation Society..... 867

American Rose Society—Westchester and Fairfield Horticultural Society..... 868

Club and Society Notes..... 869

A new star

The veteran rose hybridist, John Cook, [illegible] the name of Francis Scott Key for his latest introduction in seedling roses. The author of the "Star Spangled Banner" [illegible] of this recognition and we hope the rose which is [illegible] may, by virtue of its sterling qualities, attain to a glory as bright and fadeless as the immortal verses written by Francis Scott Key one hundred years ago.

"Going some"

The aggregate number of printed pages comprised in the Christmas and Anniversary Numbers of the four weekly trade papers last week was 468. Approximately speaking this represents 750 columns of reading matter of more or less useful quality and an investment of not for from $5,000 in advertising. The number of tons of white paper required for printing these four issues, if computed, would be a further astounding revelation as to the growth of horticultural trade journalism in the United States within a period of a few years. Nearly $1,000 a day for advertising in the florists' trade and industries directly dependent upon it, even in an exceptional week, is "some money" and certainly represents some business and enterprise. What commercial horticulture in America will yet grow to nobody can predict, for the growth has been steady and there is nothing to indicate anything but an indefinite continuance of seemingly exhaustless development.

"Safe and sane" Christmas

And now, Christmas once more. Bright skies and moderate temperatures have prevailed quite generally and there is a large and fairly adequate crop in sight of all the good things florists are wont to place before the buying public for the proper observance of that joyous anniversary. That being the case, why try to make the buyer pay more on this than on other days for the same goods? Why continue to furnish the daily papers with the foundation for preposterous stories about the prohibitive prices of Christmas flowers? Why be a party to any attempt to perpetuate the antiquated folly of "cold storage" flowers which has cost the flower growing industry so dearly? Cut it out for good and forever and the cut flower will come to its own not only for Christmas but for the days and weeks that follow, for the public will then have no cause for complaint and resentment because of any conviction that they have been imposed upon with half decayed refuse or outrageous prices.

Anglo-American Exposition

We doubt very much whether the horticultural profession in this country are aware of the extent and importance of this event which is to come off in London (Shepherd's Bush) from May to October, 1914, or whether many of them have even been apprised of it. Its avowed intent is to celebrate the centenary of peace and progress in the arts, sciences and industries of the United States of America and the British Empire. The American executive offices are in the Woolworth Building, New York and the American Industrial Section is located in the Commercial Museum, Philadelphia. The list of names of officials connected with the enterprise, in England and this country, is a very representative one, including the captains of industry, education, science and art in all sections. We note [illegible] as a member of the Horticulture, Arboriculture and Forestry Committee. Although the only representative from this country on that committee, we know that Mr. Manda will fill the position with ability and zeal and with honor to the country he represents.

Very Important

Advertisers and correspondents, please note that, because of Christmas happening on our regular press day, all communications for next issue must reach this office one day earlier than usual. Electrotypes, photographs, etc., should be sent under *letter postage*.

Two Totty Chrysanthemum Novelties



MRS. ERNEST WILD



CRANFORD PINK

A TALK ON FLOWERS.

Extracts from a paper read by C. S. Harrison, before the Minnesota Horticultural Society, at Minneapolis, December, 1913.

Flowers have become indispensible both in life and in death. The vegetable garden feeds the body, the flower garden feeds the soul. What a contrast in funerals between the present and the past. Sixty years ago a funeral was the most sombre thing which we could imagine. The coffin was home made, filling the house with the sickening odor of paint and varnish. Everything black and sombre. This month we laid away my beloved sister. The room was richly decorated with the gifts of friends. Flowers on the beautiful casket. Flowers everywhere—emblems of the everlasting spring into which she has entered. At the grave what a mass of them! By the modern appliance of lowering the coffin which is covered with beautiful blooms it slowly recedes from view, and our last look at the loved one is a vanishing among the choicest things that earth affords.

Flowers work marvelous transaction in character. Some years ago in Chicago I saw a drunken Amazon being taken to prison. Six policemen had all they could do. She was the strongest woman I ever saw. She was making ribbons of some of those fine uniforms. Finally they landed her and she was like a caged tiger in her cell. A quiet little woman saw it all and pitied Wild Mag. She went to a florist and bought a bouquet of fragrant roses, and they were delicately done up in a nice box with tissue paper. She went to the jail and wanted to see Mag. They told her it was no use. She would be torn in pieces. But she went in. The demon woman saw her and with terrible oaths she said, "You get out of here or I will throw you out." "No," said the visitor, "I love you, Mag." "You lie, there don't anybody love me, the whole world hates me and I hate back again. Now you get out." "Not yet," said the quiet little woman. "See what I have brought you." Then she undid her package and when Mag breathed the sweet perfume, and saw those lovely blooms, her woman soul came to her and she wept like a child. "The beauty of the Lord had conquered" and the visitor put her arm around her neck and their mingled tears watered those flowers.

Interest the boy in the most beautiful things the world affords. Don't expect him to get all his education in the barn yard; awaken his interest in the front yard, if you will have a gentleman and not a boor. Let the daughter associate with the most beautiful, charming and best dressed companions the world affords and she will be pure and refined.

Every Family Should Have Their Own Flowers.

There should be a succession of them—a procession of beauty from early spring until the late frosts of autumn. First come the crocuses, tulips and hyacinths. The columbines are a numerous family and they are very charming. They have a marvelous variety of color. Some are early; others, like the chrysantha, are very late. The great Oriental Poppy is a splendor. It is a flame, and a large bed of them is like a miniature sea of fire. Though not satisfactory as cut flowers, they are among the most showy for out of doors. We come to the Iris, which is the coming flower. First, because in the large collection of hundreds of varieties there are all the colors of the rainbow and the widest range of beauty of any of the flower family. Some of the newer sorts defy description. Their rich veining and tracery, those delicate tints, the radiant reflex like that of the finest silk, the blending of those harmonious colors, make them peerless. It is the most heroic flower of all. For two years we have had fearful weather. Last summer we had 30 days with the mercury soaring to one hundred and up. The hot winds were blowing like the blast of death. Peonies wilted, phlox fainted, but though we had but two inches of rain in five months the brave Iris never winced. We dig and ship in August. The ground was perfectly dry, but the Iris roots were fleshy and plump. They have the faculty of gathering the moisture and holding it. The Japanese are worthless in the West. Let them alone, unless you screen them. The Rhizomatous or the German and closely allied group are fully as beautiful and need no coddling either summer or winter. There is an increasing family of the Siberian type. There are 30 kinds in this group and more to follow. These are the tufted varieties. These flowers are bound to win. Their fascination is resistless. I am a busy man, but when my iris are in bloom I go visiting them, drawn day by day by their matchless beauty and

they seem glad to see me and put on robes of splendor, fairer by far than the raiment of a princess. We keep 180 kinds and know something about them.

The Peony.

Our modern peonies are mostly from the Chinese Albiflora. I need not speak of the wonderous beauty. A field in full bloom is one of the finest spectacles the world affords. It is like a section of Paradise let down to earth, while over the whole there float billows of fragrance. Generally they are free from disease, but of late importations from France have a mysterious plague which hampers their growth and prevents their blooming. They are the most uncanny looking affairs—club footed, with no fibrous roots to feed the plant. Cut off all the root and just plant the bud and you may dodge the difficulty.

Our great trouble with peonies is they will take their time to come to their best. Take Karl Rosenfield, for instance. This is probably the best of the deep reds. It bloomed gloriously at home where it was born, but it has been a sore disappointment when sent away. The more robust and grander the peony the more time it takes to bloom. This one should have four years to come to its best. The Baroness Schroder, one of the finest on earth, will often bloom freely the first year. I saw a row of them in full bloom among many others that had hardly a bloom at the same age. The worst abuse I ever had was from a man who bought some high priced ones and because they did not bloom the first year he made the air thick with maledictions. Then he sent me some blighted buds. There had been a heavy late frost that had nipped them and he seemed to think that I had done it. When there is danger of a late frost, throw burlap over your plants, for some of them cannot stand the strain. There is a great change of late years in the quality grown. Most of the leading growers are discarding the old sorts and raising only the best. Too many kinds have been thrown on the market. Father Terry named one hundred when he should have named only ten. Another prominent grower has placed several new ones on his list which should have remained in obscurity. We have originated about thirty new sorts. But we dare not put them on the market until more fully tested. Young peonies will lie like the mischief. They promise great things and won't make good. I had one glorious, variegated double one which was a splendor, but ever after it bloomed an insignificant single one, not worth ten cents. I had one that bloomed at first pure gold and ever after it was a muddy pink. I had one immense, radiant one—the finest, by far, among one thousand blooms. There, said I, "is $100," but it never kept its promise. There is dishonesty among peonies. That is one trouble with propagators. They will have a fine new one, and without waiting to see whether it is honest or not, they will go to propagating it and they multiply a lot of sore disappointments. There are 2500 named sorts—nine tenths should be eliminated, for we now have some splendors. Mons Jules Elie, Marguerite Gerard, Livingstone, Lees Grandiflora Rubra, Asa Gray, Albertre and a large number of others are of exquisite beauty and fragrance. It costs to get them started. In multiplying, don't cut the roots too small. It discourages the plant and it takes years to attain blooming size.

The Phlox.

The Phlox loves cool, moist weather. They can be multiplied with great rapidity. First, by seeds. Save the seeds before the pods pop open. Keep the seeds dry and crush the pods. Then plant them. If you wish to clean them, throw them in a tub of water. The seeds will sink like shot and the chaff will rise on the top. Dry them immediately if you are not ready to plant, or if you wish to sell them. Plant always in the fall. They will not grow if planted in the spring. Cover with about a half an inch of light earth or sand and see they do not dry while germinating. They love the slush and slop of spring and glory in adversity. 2nd. You can multiply rapidly from the roots. Take a sharp spade, run it straight down half way, and then turn it square and cut off the roots. The roots you leave in the ground will put a head on themselves and there will be a great mass of them. Seedlings bloom the first year, these do not. Take them up in the fall and plant them out and next year you will have fine blooming plants. You separate the stools you take up and plant them out and in a year you will have fine showy plants.

ANGLO-AMERICAN EXPOSITION, LONDON (SHEPHERD'S BUSH), 1914.



The Court of Honor by Night

The object of the Anglo-American Exposition is to celebrate in a fitting manner the hundred years of Peace and Progress between the English-speaking peoples since the treaty of Ghent in 1814. The Exposition will be held at Shepherd's Bush, London, between May and October of 1914, and will demonstrate in a practical manner the progress which has been made by the British and American people in every branch of civilization during that century, and will place on view in chronological order the great achievements of that epoch—from inception to perfection—showing not only how each nation has improved on its own inventions, but also where both have worked hand in hand to perfect the creation of the other. Thus there will be unfolded the rich treasures of a hundred years of British and American art.

A hundred years of the history of the two nations—their famous Statesmen, Authors, Artists Inventors, Philanthropists, Financiers, Merchants Manufacturers and others. Men and women who have helped in the advancement of civilization and in making each nation what it is today will be represented, with such objects of historical interest as are associated with them and their times.

A hundred years of progress in Education, Science, Literature, Inventions and Productions, Improvements and Comforts in Social Life, Betterment of the conditions of Working Men and Women.

Schedule of the Horticultural Committee.

1. Rock, Water and Formal Garden Planters for the whole of the season, May to October.

2. Herbaceous Plant Growers of the whole of the season, May to October.

3. Fruit Trees, Ornamental Trees, Climbers and Shrubs not grown for their flowers, and Hardy Flowering Shrubs for the whole of the season.

4. Growers of Rhododendrons, Azaleas, Flowering Shrubs, Sweet Peas, Dahlias, Sub-Tropical Plants, Chrysanthemums, Fruit Trees in pots, for a period of about two months each in succession.

5. Roses, for the period of the Exposition.

The Court of Honor. Groups of Palms, Bamboos, Bays and other decorative plants in pots and tubs, to be arranged in artistic groupings around this court.

"A" Section, Court of Arts. May-flowering Tulips which must be in bloom by the opening of the Exhibition; the first week in May.

"B" Section. To be followed by Sub-Tropical Foliage and Flowering Plants. May flowering Tulips, to be followed by suitable flowering plants.

"C" Section, in Front of Building No. 21. American Trees, Shrubs, Lilies, etc.; and on the island in front of this building, Bamboos and Grasses.

"D" Section, in Front of Fine Arts Palace. Climbing and Dwarf Roses.

"E" Section, Elite Gardens. Roses.

"F" Section, Court of Progress. The centre plot being an existing sunken garden, to be an English formal garden, six [illegible] on either side surrounded by tiered ledges being devoted to herbaceous plants showing artistic grouping effect; certain of the plots of this Court being reserved for Rose Gardens and others for Rhododendrons.

"G" Section. Ornamental Trees and Shrubs.

"H" Section, Back of Building No. 21. Ornamental Trees, Rock Gardens, Glasshouses, Summer-houses, Horticultural Sundries, etc.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The monthly meeting, Tuesday evening, December 16, brought out a very large attendance of members, this being election night. There was no contest except for members of the executive committee, all of the other officers of last year being renominated and unanimously re-elected, viz.: President, W. J. Kennedy; vice-president, Herman Bartsch; secretary, W. N. Craig; treasurer, Peter Fisher. An amendment to the by-laws, increasing the executive committee from five to seven members, inclusive of the president and vice-president, having been adopted, the business was to choose five out of the eleven names on the ballot and the winners were Peter M. Miller, Geo. M. Anderson, James Wheeler, W. C. Rust and W. J. Collins. During the counting of the votes the time was given to talks by several members on the approaching S. A. F. convention in Boston. Stirring addresses were made by J. K. M. L. Farquhar, P. Welch, Thomas Roland, Wm. Sim, M. A. Patten, F. E. Palmer and W. J. Stewart, and much enthusiasm was aroused by the optimistic views expressed by all the speakers.

The following resolutions were adopted:

WHEREAS, Death has taken from us one of our most useful and valued members, Edward Leroy Pierce; therefore, be it

RESOLVED, That we hereby express ourselves of loss in his separation from us and from his life work for the profession which we follow.

Edward L. Pierce was a gentleman of sterling character, a progressive business man, a genial companion and an interested and loyal member of this Club.

We join with his family and business associates in their sorrow; their bereavement touches our hearts, and to them we desire to express in these few inadequate words our deep sympathy in the loss of so good a man as our late fellow-member, Edward Leroy Pierce.

On the platform the following exhibits were displayed: Azalea Petrick's Superba by Breck-Robinson Co.; Calanthe Harrisii, a lovely white variety, by Weld Garden; Begonias Lorraine, Cincinnati and Lorraine sport by A. M. Davenport to show the distinctive character and superiority of the latter; Mignonette, Patten's strain, by T. J. Grey & Co.; seedling zonal pelargonium by John Walsh; Carnations Gorgeous and Alice by Peter Fisher.

Eleven new members were received. The landscape gardening class was reported to be filled to fullest capacity with eager and enthusiastic pupils.

ST. LOUIS FLORIST CLUB.

This club held a very fine meeting last Thursday afternoon. The attendance was large and a great deal of interest was displayed during the proceedings, which took up the entire afternoon. The Publicity Committee made a good report of their work so far, but were not yet ready to report on the advisability of holding a spring flower show. They were given until the next meeting to make such a report. All other committees made final reports and were discharged with thanks. All outstanding bills were ordered paid.

The most interesting feature was a discussion led by Walter Ogle on Profits on Carnations and Greenhouse Expenses. After his figures were displayed on the blackboard, everybody were on their feet to cut it into ribbons. This brought out points that the members wanted to know, and everybody was pleased at the conclusion. The question box also featured in discussions. The New Year meeting comes early—January 8th, at 2 o'clock P. M.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of the Nassau County Horticultural Society was held at Pembroke hall, Glen Cove, N. Y., Wednesday, December 10th. This being the end of the financial year, the most important business was the reading of the financial report for the past year, and election of officers for the coming year. S. J. Trepess, treasurer, read the report, which, considering the heavy expenses for this year, was very favorable. President C. F. Brown then resigned the chair and called upon James Duthie to install the new officers, who were as follows: President, Henry Gaut; vice-president, William Grey; treasurer, Ernest J. Brown; recording secretary, Ernest Westlake; corresponding secretary, Harry Jones; trustee for three years, James Holloway; executive committee, Valentine Cleres, James McCarthy, Walter McKinley, James Gladstone, Herman Boettcher, Hy. Goodband and Oscar Bjorkgren.

The awards for the monthly competition were as follows: Lettuce, Pierre Charbonniad; violets, Herman Boettcher; poinsettias, Percy Chubb.

The annual dinner will take place in February, 1914. The next meeting will be at Pembroke hall, Glen Cove, on Wednesday, January 14th, at 2 P. M. Competition carnations, 12 white, 12 pink, and 12 any other color.

HARRY JONES, Cor. Sec'y.

COOK COUNTY (ILL.) FLORISTS' ASSOCIATION.

The December meeting of the Cook County Florists' Association was held on the 11th inst., a week earlier than usual, on account of the nearness of the holidays. R. Karlstrom, representing W. A. Manda, South Orange, N. J., was a visitor and briefly addressed the club. Two new names were proposed, John J. Walsh and Paul R. Klingsporn, both of 176 North Michigan avenue, the latter lately of Philadelphia, and made a short address. Ernest Rober, of Willmette, Ill., showed sample plants of begonias Gloire de Lorraine and Glory of Cincinnati. Blooms of carnation Philadelphia were exhibited by Mr. Scheel, and Wiedenhorf by McAllister. The committee on sports and pastimes reported arrangements for a dance to be given by the club, January 23, at Columbia Hall. Otto Goerisch was in charge of arrangements.

CONNECTICUT HORTICULTURAL SOCIETY.

The annual meeting of the Society was held in the County Building, Hartford, on December 12th. The election of officers for the ensuing year resulted as follows:

President, John F. Huss (re-elected); 1st vice-president, Carl Peterson; 2nd vice-president, Warren S. Mason; 3rd vice-president, John Gerard; secretary, Alfred Dixon (re-elected); treasurer, W. W. Hunt (re-elected). County vice-presidents (all re-elected): Litchfield, Walter Angus, Chapinville; Fairfield, Charles H. Plump, West Redding; New Haven, John H. Slocombe, New Haven; Windham, Frank M. Smith, Willimantic; Tollant, Theodore Staudt, Rockville; Middlesex, Arthur A. Curtis, Deep River. Librarian, William T. Hall; botanist, C. H. Sierman; Pomologist, C. H. Hollister.

The executive committee will be appointed by the President at the meeting to be held on the second Friday in January. A short address was made by Theodore Staudt of Rockville, and President Huss made some reminiscent remarks regarding Theodore Wirth, ex-superintendent of Elizabeth Park, Hartford, now superintendent of parks, Minneapolis. One of the features of the meeting was a vase of Lilium magnificum exhibited by Warren S. Mason, the bulbs having been taken from cold storage in September.

ALFRED DIXON, Sec'y.

Wethersfield, Conn.

AMERICAN CARNATION SOCIETY.

The schedule of premiums for the 23rd Annual Convention and Exhibition, which will be held in Cleveland, O., on January 28-29, 1914, has been mailed to all the members. Should any of them fail to reach their proper destination, a postal will bring another.

The arrangements for this meeting are going on apace, and judging by the interest that is already being manifested, this convention bids fair to eclipse all that have gone before. Cleveland is easily reached from all points and the shipping facilities are of the very best, so that no inconvenience should be experienced by anyone in getting to the convention, both personally and with the exhibits.

The entire affair is to be pulled off at the new "Statler Hotel," one of the most up-to-date, convenient, and yet very reasonable hostelries in the country. Exhibition, meetings and banquet will all be held here, in the one building.

The beauty and value of the exhibition will this year be enhanced by the addition of retail exhibits, contributed by the retailers of Cleveland and anyone from outside the city who is progressive enough to know a good thing when he sees it.

The exhibition will be reserved for inspection by the members until 8 P. M. on Wednesday and again on Thursday until 2 P. M. On Thursday evening a banquet will be served to the members of the A. C. S. and the Cleveland Florists' Club.

Every member is urged to make an effort to attend this convention and to make an exhibit.

A. F. J. BAUR, Sec'y.

Indianapolis, Ind.

AMERICAN ROSE SOCIETY.

The executive committee of the American Rose Society held a meeting in New York City and went over the list of roses of American origin filed for the coming Bulletin. The list of prizes for the coming spring exhibition, which will be held at the International Flower Show in the Grand Central Palace in New York City, was also prepared. It will be increased by some specials.

The expectation is that a larger number will exhibit even than did last spring, when the greatest Rose Show ever held in America was given. The prizes cover both the plants and the cut flowers.

American Rose Society Prize List.

For the Spring Exhibit at the International Flower Show to be held in the New Grand Central Palace, New York City, March 21 to 28, 1914. All entries to be filed with the Secretary of the Society.

Roses In Pots and Tubs.

COMMERCIAL GROWERS.

Display in pots or tubs, any or all classes, to occupy 300 sq. ft. arranged for effect. 1st prize, $250; 2d, $150.

Twelve Climbing or Rambling, 6 or more varieties. 1st prize, $60; 2d, $40.

Crimson Rambler, specimen. 1st prize, $10; 2d, $5.

Lady Gay, specimen. 1st prize, $10; 2d, $5.

Dorothy Perkins, specimen. 1st prize, $10; 2d, $5.

Tausendschoen, specimen. 1st prize, $10; 2d, $5.

Hiawatha, specimen. 1st prize, $10; 2d, $5.

Climbing, any other variety, specimen. 1st prize, $10; 2d, $5.

Collection Hybrid Perpetuals, Teas, Hybrid Teas, Polyanthas and other classes, 25 plants, not less than 6 varieties, arranged for effect. 1st prize, $25; 2d, $15.

PRIVATE GROWERS.

Display in pots or tubs, any or all classes, to occupy 100 sq. ft. 1st prize, $75; 2d, $50.

Collection Hybrid Perpetuals, Teas, Hybrid Teas, Polyanthas, and other classes, 25 plants, not less than 6 varieties, arranged for effect. 1st prize, $25; 2d, $15.

Six Climbing or Rambling, 3 or more varieties. 1st prize, $30; 2d, $20.

Crimson Rambler, specimen. 1st prize, $10; 2d, $5.

Lady Gay, specimen. 1st prize, $10; 2d, $5.

Dorothy Perkins, specimen. 1st prize, $10; 2d, $5.

Tausendschon, specimen. 1st prize, $10; 2d, $5.

Hiawatha, specimen. 1st prize, $10; 2d, $5.

Climbing, any other variety, specimen. 1st prize, $10; 2d, $5.

Cut Blooms.

Division A.

Display of Cut Roses covering 200 square feet of space, and to contain not less than 500 nor more than 1000 blooms, quality of bloom and effect to be considered, and decorative green of any kind, including plants, permitted. 1st prize, $200; 2nd, $150; 3rd, $100.

Division B.

100 American Beauty. 1st prize, $50; 2nd, $30; 3rd, $20.

50 American Beauty. 1st, $25; 2nd, $15; 3rd, $10.

50 Milady. 1st, $20; 2nd, $10.

50 Mrs. George Shawyer. 1st, $20; 2nd, $10.

50 Mrs. Charles Russell. 1st, $20; 2nd, $10.

50 Killarney or Double Pink Killarney. 1st, $20; 2nd, $10.

50 White Killarney. 1st, $20; 2nd, $10.

50 Double White Killarney. 1st, $20; 2nd, $10.

50 Killarney Queen. 1st, $20; 2nd, $10.

50 Richmord. 1st, $20; 2nd, $10.

50 Radiance. 1st, $20; 2nd, $10.

50 Lady Hillingdon. 1st, $20; 2nd, $10.

50 Sunburst. 1st, $20; 2nd, $10.

50 Mrs. Aaron Ward. 1st, $20; 2nd, $10.

50 My Maryland. 1st, $20; 2nd, $10.

50 Mrs. Taft (Antoine Revoire). 1st, $20; 2nd, $10.

50 Fire Flame. 1st, $10; 2nd, $5.

50 Cecile Brunner (Sprays of). 1st, $10; 2nd, $5.

50 Any other disseminated variety, white. 1st, $10; 2nd, $5.

50 Any other disseminated variety, pink. 1st, $10; 2nd, $5.

50 Any other disseminated variety, red. 1st, $10; 2nd, $5.

50 Any other disseminated variety, yellow. 1st, $10; 2nd, $5.

Division C.

25 American Beauty. 1st prize, $20; 2nd, $15; 3rd, $10.

25 Milady. 1st, $10; 2nd, $5

25 Mrs. George Shawyer. 1st, $10; 2nd, $5.

25 Mrs. Charles Russell. 1st, $10; 2nd, $5.

25 Killarney or Double Pink Killarney. 1st, $10; 2nd, $5.

25 Killarney Queen. 1st, $10; 2nd, $5.

25 Richmond. 1st, $10; 2nd, $5.

25 Radiance. 1st, $10; 2nd, $5.

25 Lady Hillingdon. 1st, $10; 2nd, $5.

25 Sunburst. 1st, $10; 2nd, $5.

25 Mrs. Aaron Ward. 1st, $10; 2nd, $5.

25 My Maryland. 1st, $10; 2nd, $5.

25 Mrs. Taft (Antoine Revoire). 1st, $10; 2nd, $5.

25 Mme. Abel Chatenay. 1st, $10; 2nd, $5.

25 Bride. 1st, $10; 2nd, $5.

25 Bridesmaid. 1st, $10; 2nd, $5.

25 Bon Silene. 1st, $10; 2nd, $5.

25 Fire Flame. 1st, $5; 2nd, $3.

25 Cecile Brunner (Sprays of). 1st, $5; 2nd, $3.

25 Any other disseminated variety, white. 1st, $10; 2nd, $5.

25 Any other disseminated variety, pink. 1st, $10; 2nd, $5.

25 Any other disseminated variety, red. 1st, $10; 2nd, $5.

25 Any other disseminated variety, yellow. 1st, $10; 2nd, $5.

Division D.

50 Blooms of the best new Rose not in commerce. An American Rose Society Silver Medal.

Division E.

Open to Private Gardeners and Amateurs only.

12 American Beauty. 1st prize, $6; 2nd, $4.

12 Milady. 1st, $5; 2nd, $3.

12 Mrs. George Shawyer. 1st, $5; 2nd, $3.

12 Mrs. Charles Russell. 1st, $5; 2nd, $3.

12 Killarney or Double Pink Killarney. 1st, $5; 2nd, $3.

12 Double White Killarney. 1st, $5; 2nd, $3.

12 Killarney Queen. 1st, $5; 2nd, $3.

12 Richmond. 1st, $5; 2nd, $3.

12 Radiance. 1st, $5; 2nd, $3.

12 Lady Hillingdon. 1st, $5; 2nd, $3.

12 Sunburst. 1st, $5; 2nd, $3.

12 Mrs. Aaron Ward. 1st, $5; 2nd, $3.

12 My Maryland. 1st, $5; 2nd, $3.

12 Mrs. Taft (Antoine Revoire). 1st, $5; 2nd, $3.

12 Fire Flame. 1st, $5; 2nd, $3.

12 Cecile Brunner (Sprays of). 1st, $5; 2nd, $3.

12 Any other disseminated variety, white. 1st, $5; 2nd, $3.

12 Any other disseminated variety, pink. 1st, $5; 2nd, $3.

12 Any other disseminated variety, red. 1st, $5; 2nd, $3.

12 Any other disseminated variety, yellow. 1st, $5; 2nd, $3.

Special Prizes.

THE PRESIDENT'S PRIZE.

Wallace R. Pierson, President of The American Rose Society, offers $25 in cash for the best twenty-five Roses, one or more varieties, to be shown in one vase. Competition open to all private gardeners who are members of The American Rose Society.

THE SECRETARY'S PRIZE.

Benjamin Hammond, Secretary of The American Rose Society, offers for 15 Bon Silene Roses grown by parties having less than 20,000 feet of glass: 1st prize, $5; 2nd, $3.

BENJAMIN HAMMOND. Sec'y.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The annual meeting of this Society was held in Doran's hall, Greenwich, Conn., Dec. 12th. The following officers were elected for the ensuing year:

President, Robt. Williamson, Greenwich, Conn.; vice-president, Adam Patterson, Saugatuck, Conn.; treasurer, W. J. Sealey, Port Chester, N. Y.; secretary, J. B. McArdle, Greenwich, Conn.; corresponding secretary, P. A. Popp, Mamaroneck, N. Y.

The show committee's report on the recent exhibition proves same to have been a huge financial success. Reports by the secretary and treasurer show the Society to be in excellent standing. A social is to be held in Stamford early in February.

A unanimous vote of thanks was accorded Wm. Morrow for an excellent

XMAS CHRISTMAS XMAS

HOLLY. Extra Fine Quality, per case, $5.00

BOXWOOD, per case of 50 lbs....$8.00
LAUREL FESTOONING, per 100 yards .....$5.00 and $6.00
PRINCESS PINE FESTOONING, per 100 yards.....$6.00 and $8.00
PRINCESS PINE, per pound..... .08
LAUREL WREATHS, well made, per dozen.....$2.50 to $3.00
MISTLETOE, per pound..... .50
25 pounds at..... .40
SOUTHERN WILD SMILAX, per case 50 lbs..... 6.00
DAGGER AND FANCY FERNS, per 1,000, A1 quality..... 1.50

NEW CROP BRONZE AND GREEN GALAX, per 1,000..... 1.00
SPHAGNUM MOSS, per bale..... $1.50 and 2.00
Per sack ..... .40
IMPORTED BRONZE MAGNOLIA LEAVES, per hamper..... 1.50
NATIVE GREEN MAGNOLIA LEAVES, fine quality..... (per carton) 1.50
LEUCOTHOE SPRAYS, per 100... 1.00
Per 1,000..... 7.50

WRITE WIRE TELEPHONE

We carry a large stock of FLORISTS' SUPPLIES on hand and can fill orders at a moment's notice. All orders receive prompt and personal attention. Satisfaction guaranteed. A square deal to all

HENRY M. ROBINSON COMPANY

2 Winthrop Square and 34 Otis Street, BOSTON, MASS.

Telephones—Main 2439, 2616, 2617, 2618, Fort Hill 25290

paper which he read on "Grape Culture Under Glass." Mr. DeViver, of Mt. Vernon, N. Y., gave a descriptive account of the new rhododendron disease. Short addresses were delivered by Chas. H. Totty and Martin C. Ebel of Madison, N. J. Chas. H. Totty had on view the new rose Prince E. C. de Arenberg, which certainly looks a winner. OWEN A. HUNWICK.

CLUB AND SOCIETY NOTES.

The next meeting of the Kansas City (Mo.) Florists' Club will take place on January 2d.

The discussion committee of the North Shore Horticultural Society announce that at the next meeting Alex. Cumming, of Cromwell, Conn., will address the members on "Hardy Roses."

The monthly meeting of the Elberon Horticultural Society was held in Firemen's Hall, Dec. 1st, with a large attendance. Officers were duly installed for the ensuing year as follows: President, Thos. Hambleton; vice-president, F. Eddington; treasurer, A. Bauer; secretary, G. Masson.

WM. BRYAN, Fin Sec'y.

The following officers were elected at the last meeting of the Montreal Florists' & Gardeners' Club: President, H. J. Eddy; first vice-president, C. A. Smith; second vice-president, Wm. Cotter; secretary-treasurer, W. H. Horobin; assistant secretary, Julius Luck; committee, W. McCoullock, R. Burrows, W. S. Watts, D. McDonald, George Pascoe, J. Travis.

The N. J. State Horticultural and Agricultural Societies held a convention and exhibition at Trenton last week. At the session on Tuesday night, Dec. 9, an illustrated lecture on "The Bulb Fields of Holland and Foreign Flower Shows," was given by Richard Vincent, Jr., of White Marsh, Md. Admission to all sessions, including the evening lectures, was free.

The New London Horticultural Society held its monthly meeting on the 11th inst. The following officers were elected for the ensuing year: President, Henry C. Fuller; first vice-president, Alfred Flowers; second vice-president, Donald Miller; secretary, John Humphrey; financial secretary, William J. Morgan; treasurer, S. L. Ewald; librarian, H. E. Lickman. After the election of officers there was a discussion on Bulbs, both forcing and for outside planting.

H. LICKMAN.

Waterford, Ct.

A KIND WORD.

Mr. Editor:—Just a line about the "Special." I like it much and consider in material and general make-up it is one of the best you have ever produced. One great thing about it is the high quality of the reading matter. Altogether it is a mighty nice paper and bears out what many have said of it. A.

Maine.

PRINCESS DAGMAR

Without doubt the best Crimson Carnation in existence

BOOKING ORDERS NOW FOR EARLY SPRING DELIVERY

ROOTED CUTTINGS

$12.00 per 100 $100 per 1000

AWARDED

At the MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, November, 1912:
SILVER MEDAL.
At the GARDENERS' AND FLORISTS' CLUB OF BOSTON, Jan. 1913-Feb. 1913:
REPORT OF SUPERIOR MERIT (each month).
At the INTERNATIONAL FLOWER SHOW, New York, April, 1913:
FIRST for best 100 crimson.
GOLD MEDAL for 12 largest blooms.
SILVER MEDAL, Perpetual Flowering Carnation Society, England.
BRONZE MEDAL, American Carnation Society.
PRELIMINARY CERTIFICATE for Fred Dorner Memorial Medal.
At the CHICAGO HORTICULTURAL SOCIETY, April, 1913:
BRONZE MEDAL, first, best seedling not disseminated, any other color.
At the BOSTON CO-OPERATIVE FLOWER MARKET SHOW, April, 1913:
FIRST for 50 best seedlings not disseminated.
FIRST for 100 best carnations, ANY COLOR.
At the GARDENERS' AND FLORISTS' CLUB of Boston, May, 1913:
Report of HIGHEST MERIT.
At the AMERICAN INSTITUTE, New York, November, 1913:
CERTIFICATE OF MERIT.
At the HOLYOKE and NORTHAMPTON FLORISTS' CLUB, Holyoke, Mass., November, 1913:
SPECIAL PRIZE for 50 best carnations, any variety not disseminated.
At the OHIO HORTICULTURAL SOCIETY, Cleveland, Ohio, November, 1913:
CERTIFICATE OF MERIT AND SWEEPSTAKES for best seedling.

PATTEN & COMPANY

TEWKSBURY, = = = = MASS.

We grow large quantities of

Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS
Send for List

R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.
Mention HORTICULTURE when writing

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS
Flowerfield, L. I., N. Y.

CHRYSANTHEMUMS
STOCK PLANTS

Pacific Supreme Alice Byron
Virginia Poehlmann Golden Glow
Major Bonnaffon
$2.00 per 100 $18.00 per 1000

SHEPARD'S GARDEN CARNATION CO.
292 Fairmount St., - - - Lowell, Mass.

Horticulture's attractive December 13th issue is very much appreciated. Wishing you the compliments of the season. Very truly yours,

A. G. B.

Wisconsin.

HYDRANGEAS Best French Varieties

GEN. DE VIBRAYE, makes large heads, bright rose, easily forced, 5½ in. pots, 35c.
MME. E. MOUILLERE, the well known popular variety, best big white flowering, 5 in. pots, 35c.
OTAKSA, best old standard pink, 5½, 6 and 7 in. pots, 25, 35, 50 and 75c.
Commence now for Easter forcing.
RHODODENDRONS, 25-30 in. high, full of buds, best varieties, $1.00, $1.25 to $1.50.

For EASTER. Azalea Indica, Mme. Van der Cruyssen, Vervaeneana, de Schreveriana, Niobe, Deutsche Perle and the other best varieties, 50c., 60c., 75c., $1.00, $1.25, $1.50 to $2.00.
Cash with order, please.

GODFREY ASCHMANN, Importer of Azaleas
1012 West Ontario St., Philadelphia, Pa.

GERANIUMS TO MAKE ROOM

S. A. NUTT, 2¼ in., $15.00 per 1000. In fine condition.
POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.
ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.
FUCHSIAS, 2¼ in., $2.00 per 100.
DRACAENAS, 3 in., $4.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave., Schenectady, N. Y.
Mention HORTICULTURE when writing

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

CHRYSANTHEMUMS.

A paper read by C. W. Johnson, Secretary of the Chrysanthemum Society of America, before the Minnesota State Florists' Association.

(Continued from page 781)

The mid-season varieties should be planted into their permanent quarters in the benches between the first and 20th of June, to be able to get the best results. Choose a fresh, live soil consisting of one part well-rotted manure to three parts of sod. Chrysanthemums delight in a rather heavy soil and will produce a much larger flower of more substance in a heavy soil than what they will when grown in a light one. Even when planted in what appears to be a stiff compost it is a good plan to firm down the beds between the plants after they have become established before staking them up.

You are all versed on the general routine of the culture of the plants during the summer months, therefore it is not necessary for me to go very deeply into details on this point, but let me urge a close application to the plants' requirements. Do not allow them to suffer for want of water or carry it to the other extreme. Attend to the staking up of the plants in good season before the stems become crooked. Syringe liberally the underside of the foliage to keep the plants free from red spider and maintain a moist atmosphere during very hot weather. Attend regularly to the removing of the side shoots so as to encourage the main stem to make growth so that the wood will be in the right condition to form the bud on time. This item is of the utmost importance in the culture of chrysanthemums for cut-flower purposes, because a few days overlapping in taking the buds will alter the character of the blooms and throw them later in maturing, both very important considerations. Referring to the taking of the buds, or in other words selecting the bud to form the flower, the first week of August is the time when every chrysanthemum grower begins to sit up and take notice as regards taking the buds. One of the leading qualities that a chrysanthemum should possess from a commercial standpoint is that it will make a double flower from either bud, so that the grower who cannot give his plants a long season of growth is sure of a double saleable flower, even though the buds are late in forming. The taking of early buds is not advisable with very many of our standard commercial varieties. Our records show that August 15 is the date that we can safely begin to take buds on the early varieties in our section of the country. We begin to take the buds of Polly Rose as soon after that date as possible, but very few of the buds on the other varieties are taken before August 20. There is an exception, however, to this rule. When very early blooms of Golden Glow or Smith's Advance are wanted, buds of these varieties can be taken as early as July 1 and develop perfect flowers.

Feeding.

The question of feeding or stimulating growth by applying liquid manure or commercial fertilizers is one to which every grower should give his closest study. While chrysanthemums respond to a liberal amount of feeding, it is very easily overdone, especially with the commercial cut bloom stock. We are becoming each year, more and more convinced that we can put enough nourishing material in the soil or by the way of light mulchings that together with careful culture will almost eliminate the necessity of applying liquid manure to this class of stock.

Exhibition Varieties.

The grower who undertakes to grow for exhibition must prepare himself for a close application to the task so that he will be thoroughly acquainted with his plants. Exhibitors are accustomed to take bigger chances along the lines of feeding to obtain size in the blooms than what the average grower will do. Exhibition varieties also require a longer season of growth than what is advised for the commercial stock. Therefore, early propagation is necessary. The cuttings should go into the sand the latter part of January or early February and from that time on there must not be any let up in watching their every requirement. Shift the young plants along into larger pots as they require it, increasing the richness of the compost with each shift. They should be ready for their final shift or permanent place by May 20. A number of exhibitors grow their exhibition stock in pots during the entire season, potting them along from the sand into the different sizes until they get into 8-inch at last of May, which is the size they are to flower in. The only advantage the pot system has over that of growing them in the bench is that you have the plants and roots more under control. Taking the buds is even more important on the exhibition varieties than with the commercial stock, many of them being useless for exhibition purposes unless an early bud is taken. Climatic conditions of the different sections of the country govern to a great extent the taking of buds on exhibition varieties. We of the middle west cannot take a bud as early as August 10 and get as good results as the growers of the eastern states. The pompon and single varieties are claiming a great deal of the growers' attention and more of them are being grown each year; also a great improvement of the varieties over those of a few years ago is taking place and many very beautiful varieties of these types are being exploited. Improvement is also taking place in the list of large-flowered varieties, adapted to pot culture and the cap family (selections of Caprice du Printemp) are the best suited for pot culture that have come to us for some time.

In conclusion allow me to again emphasize that to be successful in any branch of chrysanthemum culture the grower must know his plants, follow closely every little detail in the routine of the work in caring for them and be on the lookout for any improvement of variety or method of culture.

NEW FRENCH HYDRANGEA.



MME. AGNES BARILLET

ONCIDIUM SPLENDIDUM.

R. G. Simpson of Croyden, Tarrytown, sends a photograph, showing a fine specimen of Oncidium splendidum which has been in flower there for the past three weeks. The scape is four feet nine inches in length, and bears 38 large flowers. Accompanying the picture, which would not make a satisfactory reproduction, are the following notes. O. splendidum is a native of Gautemala. The leaves are erect, from six to nine inches long and of a leather-like nature. The scapes are usually around three feet and erect in habit. Pseudo-bulbs from two to three inches high. The sepals and petals are yellow marked with chocolate. The lip is bright yellow, and spreading and the crest magenta purple.

I consider O. splendidum fine for group work, although, it is not nearly so graceful as O. varicosum, var. Rogersii. It is of easy culture simply requiring a cool moist atmosphere where it gives the best results.

The photograph of Siberian irises and lupines reproduced in our special number last week were taken on the grounds of the Mt. Desert Nurseries, Bar Harbor, Me., and kindly furnished by that establishment for our use.

MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless,** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class — 21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS
COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK



THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI
AND
BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

ERNEST OECHSLIN
Gale Ave. and Madison St.
RIVER FOREST, - ILL.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

ORCHIDS

Imported and Potted
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL, Summit, N. J.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

SPHAGNUM MOSS
We guarantee fresh and clean, 10 bbl bales; Selected Stock; neatly burlapped. 6 per cent. off Cash with order.
1 bale.....$3.50 5 bales $15.00
2 bales..... 6.50 10 bales 28.00
Car lots. Write for Prices.
INDUSTRY MOSS & PEAT CO., Waretown, N. J.
LOCK BOX 5

You Cannot Possibly Go Wrong
by investing in the
PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.
1218 Betz Building]
Philadelphia, Pa.

KILLARNEY BRILLIANT
THE Great Forcing ROSE
ROBERT SCOTT & SONS, Sharon Hill, Pa.

HOLLAND NURSERIES
BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.
P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken, N. J.

Forcing Shrubs and Plants

Azalea indica in variety. Azalea mollis in variety
Lilacs Roses

SHRUBS in variety

Spiræas Helleborus Lily-of-the-Valley

R. & J. FARQUHAR & CO.

BOSTON, MASS.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.
BOSTON, MASS.

A large and complete assortment of
Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

---

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST **W. B. WHITTIER & CO., So. Framingham, Mass.**

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new GERANIUM SCARLET BEDDER for your Garden and Window boxes. Then procure a copy of CHRYSANTHEMUM MANUAL 3rd edition as a guide for growing your CHRYSANTHEMUMS. 50c. postpaid.
Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.
Then procure our FERTILENE, the IDEAL PLANT food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT — **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING — Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

The New French Hydrangeas

The dormant stock which we now have stored in cold frames is in prime condition to force for Easter, or to bring on slowly for Memorial Day and Spring sales. If you have no stock of these, you will make no mistake in taking advantage of this offer, you will find them good sellers.

AVALANCHE. A splendid large white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years.

MME. A. RIVERAIN. Superb bright rose color; very vigorous and floriferous.

MME. E. MOUILLERE. Probably the most popular white variety on the market today, an early easy variety to force.

MME. MAURICE HAMAR. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MME. AGNES BARILLET. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere.

MLLE. DE TREMAULT. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa.

MOUSSELINE. A beautiful mauve-rose with cream-colored centre; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose with carmine reflex; very free and easily forced.

ORNAMENT. Large pretty mauve-pink flowers, very free flowering.

RONSARD. Flowers and trusses very large, of a beautiful rose-tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

SENATEUR HENRI DAVID. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads on the style of La Lorraine, but an earlier bloomer.

Price on Any of the Above Varieties

5-inch pots - - - $2.50 per dozen; $20.00 per 100
6- " " - - - 4.00 " " 30.00 " "
One each of the Set of 21 Varieties in 5-inch pots for $4.00
" " " " " " " " " " 6-inch " " 6.00

HENRY A. DREER, Inc.

714 Chestnut Street, - - - - PHILADELPHIA, PA.

The above prices are intended for the trade only

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

100,000 Geraniums

From 2 and 2¼ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

ALONZO J. BRYAN, Washington, New Jersey

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

CYCLAMEN

Best strain in existence.

4 inch	$25.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

W. J. Sherry has resigned his position with the Johnson Seed Company of Philadelphia, Pa.

Alfred Emerich, representing Messrs. Vilmorin, Andrieux & Co., Paris, France, after a very successful trip through the United States and Canada, visiting the seed trade, returned home on S. S. Olympic on the 13th inst.

Springfield, Mass.—William H. Wilson has retired from the firm of Montgomery & Wilson and Mr. Montgomery will continue a part of the business, devoting himself entirely to the sale of seeds and fertilizers. The part of the business pertaining to hardware and agricultural implements has been sold to Frank A. Holden & Son, who have conducted a general store in Plainfield.

CATALOGUES RECEIVED.

J. M. Thorburn & Co., New York City, "Thorburn's Seeds," 1914.

J. L. Moore, Northboro, Mass.—Wholesale Price List of Dahlias and Gladioli. A well selected list.

H. E. Meader, Dover, N. H.—Special Wholesale Price List of Gladioli, Florists' Mixture, for the trade only.

North Eastern Forestry Company, New Haven, Conn.—1914 Catalogue of High Grade Tree Seeds and Nursery Stock.

Atlantic Nursery Co. Inc., Berlin, Md.—1914 Spring Trade Price List of Ornamental Trees, Shrubs and Herbaceous Perennials.

M. Herb, Naples, Italy.—Price List of Novelties for 1914. Printed in three languages. Attractively illustrated with portraits of flowers presumably meritorious.

F. C. Heinemann, Erfurt, Germany.—Special Trade Offer, Novelties, 1914, "and some other first-class seeds of last year's and former introduction." Handsomely illustrated with portraits of alleged new strains.

W. Atlee Burpee & Co., Philadelphia, Pa.—Burpee's Annual, 1914. "The plain truth about seeds that grow." Up-to-date and business-like as always, this catalogue takes its place among the "early birds." There are two colored plate inserts—one of Gibraltar onion, Golden Bantam sweet corn, etc., and the other Spencer sweet peas, pansies, etc. The covers are richly adorned with beautiful Spencer sweet peas and Matchless tomato.

The first of the 1914 seed catalogues to be received at this office—good evidence that this oldest of seed houses in America is still "up and doing." This is their 113th successive annual catalogue and, like its predecessors, it is complete, comprehensive and well arranged. The cover of soft grey tone bears the inscription in gold embossed letters without pictorial adornment and is refined and pleasing in effect. There is a good list of vegetables and flower seed novelties for the coming season.

PHILADELPHIA NOTES.

George S. Faulkner is back again to Philadelphia and is now located at the Habermehl establishment at 22nd and Diamond street.

Dennis T. Connor, who has been laid up with typhoid for the past four or five weeks, was reported on the 15th to be resting comfortably and doing as well as could be expected.

E. J. Fancourt of the Pennock-Meehan Co., has returned from a flying visit west as far as Chicago and reports business very good all along the line. The feeling in trade circles is very optimistic.

Robert Craig Co. report that trade has been better than ever with them this Christmas. We can well believe it. Never saw finer display of holiday plants in bloom. Not only all the staples and standbys but the novelties—new things that you don't find elsewhere.

Cut poinsettias are in less supply this year. This crop has not proved entirely satisfactory in the past from a financial standpoint, and that explains the decrease. But as a pot plant, especially in the dwarfer sizes and for baskets, the demand seems to be as good as ever.

Skimmias—mentioned in our notes last week—seem to have woke up some of the old-timers. We have been asked, "What do you know about skimmias?" Not much, as a matter of fact; but young R. Craig says all their importations heretofore have been unsatisfactory because they lost their leaves, but this year they have managed to get them.

Visitors: T. W. Pierce, Baltimore, Md.; Charles Sim, Rosemont, Pa.

NEW CORPORATIONS.

Stamford, Conn.—Stamford Seed & Nursery Company, capital stock $15,000. Incorporators: George W. Woundy, George B. Cannon and Benjamin H. Mead.

Jack Frost Mats

For Cold Frames

$1.40 each. Burlapped

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

MICHELL'S SPIREA CLUMPS

	Doz.	100	1000
Astilbe Floribunda	$0.85	$ 5.50	$ 52.50
Compacta Multiflora.	.90	6.00	55.00
Philadelphia (new) 30c each	3.00	20.00	
Queen Alexandra	1.25	7.75	72.50
Gladstone	1.00	6.75	62.00
" Monster	1.75	11.00	100.00
Japonica	.65	4.75	42.50

DIELYTRA SPECTABILIS

Mammoth Roots, 90c per dozen; $6.00 per 100; $52.00 per 1000.

HEADQUARTERS FOR

CHRISTMAS GREENS

Holly (Loose)
Holly Wreaths
Laurel Wreathing
Lycopodium (Loose)
Lycopodium Wreathing
Native Mistletoe
Mexican Mistletoe

Send for our Handy Flower Seed Order Sheet, if you haven't received a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market Street, PHILADELPHIA, PA.

Mention HORTICULTURE when writing

Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

Please Write Now for Our

CONTRACT PRICES

Langport, Eng.

QUALITY SEEDS BULBS PLANTS

SEND FOR CATALOGUE.

ARTHUR T. BODDINGTON

342 West 14th St., New York.

Season for Forcing Asparagus

I am the only party handling genuine 6 year-old Asparagus roots in this country the proper age for forcing. Each root will force from 5 to 8 shoots and each shoot is worth at least ten cents. Can ship roots promptly.

WARREN SHINN Forcing Root Specialist **Woodbury, N. J.**

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

SURPLUS SPIREA, Etc.

SPIREA, Peach Blossom
SPIREA, Gladstone
SPIREA, Queen Alexandra
SPIREA, Japonica
SPIREA, Compacta

GLADIOLUS, The Bride
GLADIOLUS, Blushing Bride
HELEBORUS Niger
DIELYTRA Spectabilis

Prices on Application

BURNETT BROTHERS, Seedsmen
98 CHAMBERS STREET NEW YORK

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

FRESH STOCK **LILIUM GIGANTEUM 8-9 in.**

L. Speciosum, Rubrums, Magnificums and Albums, 8-9 in.

WRITE FOR PRICES

YOKOHAMA NURSERY CO., Ltd. 51 Barclay Street, NEW YORK, N. Y.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

We have all the leading

WINTER SWEET PEAS

at $2.00 per lb. Try a few of our

NEW WINTER ORCHID

SWEET PEA, at $4.00 per ½ oz.

Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.

Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.

ANT. C. ZVOLANEK

LOMPOC, CALIFORNIA

FOTTLER FISKE RAWSON CO.,

LILIES BOSTON

HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM

Write us for price.

See Our Special Florist List

OTTO HEINECKEN

Horticultural Agency

Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable Seeds.

H. ZYP & CO., Lisse (Holland)
Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

WRITE FOR PRICES.

Mention HORTICULTURE when writing

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

LILIUM

L. LONGIFLORUM

6-8 per 100, $3.00

L. GIGANTEUM MULTIFLORUM

6—8	Per 100	$3.50
	" 1000	30.00
7—9	" 100	5.00
	" 1000	45.00

SPIRAEA

	100	1000
Astilboides floribunda	$4.00	$35.00
Japonica	4.00	35.00
" compacta multiflora	5.00	40.00
Palmata	7.00	
Washington	5.00	40.00
Queen Alexandra	8.00	65.00

LILY OF THE VALLEY

PIPS JUST ARRIVED.

Prices on Application.

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. T20 New York, N. Y.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

O. V. ZANGEN

SEEDSMAN, HOBOKEN, N. J.

Mention HORTICULTURE when writing

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

When writing to advertisers kindly mention HORTICULTURE.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1503
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Norfolk, Va.—Virginia Floral Co.

Norfolk, Va.—Newton Floral Co.

Columbus, O.—Miller's Flower Shop.

Fort Dodge, Ia.—R. P. Atwell, Central Ave.

St. Louis, Mo.—May Burns, Grand and Page.

New Haven, Conn.—Chas. M. Myers, 936 Chapel St.

Chicago, Ill.—H. N. Bruns, 3032 W. Madison street.

STEAMER DEPARTURES

Allan.

Scotian, Boston Glasgow.....Dec. 25

American.

Philadelp'a, N. Y.-S'hampton. Dec. 26

Atlantic Transport.

Minnetonka, N. Y. London....Dec. 27

Cunard.

Lusitania, N. Y.-Liverpool....Dec. 24
Campania, N. Y. Liverpool....Dec. 31
Saxonia, N. Y.-Mediter'n.....Dec. 31

French.

France, N. Y.-Havre.....Dec. 24
La Touraine, N. Y.-Havre.....Dec. 27
La Lorraine, N. Y.-Havre.....Dec. 31

Hamburg-American.

Pretoria, N. Y. Hamburg.....Dec. 27

Holland-America.

Ryndam, N. Y.-Rotterdam....Dec. 23
Rotterdam, N. Y.-Rotterdam..Dec. 30

Leyland.

Canadian, Boston Liverpool...Dec. 27

North German Lloyd.

Prinzess Irene, N. Y. Bremen. Dec. 23
Bremen, N. Y.-Bremen.....Dec. 27

Red Star.

Vaderland, N. Y.-Antwerp....Dec. 24
Kroonland, N. Y.-Antwerp....Dec. 31

White Star.

Baltic, N. Y.-Liverpool.....Dec. 25
Olympic, N. Y.-Southampton. Dec. 27
Cymric, Boston-Liverpool.....Dec. 30

Portsmouth, O.—The Herms Floral Co., 819 Sixth St.

St. Louis, Mo.—Joseph Wedick, 918 North King's Highway.

Hartford, Conn. — Andrew Bros., Main and Summer Sts.

Houston, Tex.—Kuhlman, the Florist, Fannin and Capitol.

Ellwood City, Pa.—A. Krut Floral Company, Lawrence avenue.

Saginaw, Mich.—Wm. Roethke Company, 333-337 S. Washington avenue.

Davenport, Ia.—J. J. Nichol, Young & McComb's dry goods store, 17th street and 2d avenue.

Philadelphia, Pa. — Samuel Irvine, Broad street and Fairmount avenue; Charles Uber, 2850 North Fifth street.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
—Bloomingdale's—
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, and Hotel St. Francis, CAL.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

BUSINESS TROUBLES.

John A. Olsen and Philip J. Lunden, operating as florists at Southington, under the name of Olsen & Lunden, filed individual and co-partnership schedules yesterday. They have co-partnership liabilities of $5,264.09, and $5,094.98 of the amount is unsecured. Co-partnership assets that creditors can make claim to are listed as follows: Stock in trade, $1,338.83; debts due on open account, $1,003.55; other personal property, $354.65. Mr. Olsen has unsecured liabilities of $131.71 and secured liabilities of $1,812.50. He claims an interest in real estate valued at $3,250. Mr. Lunden represents his liabilities at $1,906.07, and $1,812.50 of the amount is unsecured. He claims an interest of $3,250 in real estate.—*Meriden (Conn.) Journal.*

Cleveland, O.—The Cleveland Flower Shop, Taylor Arcade, has closed its doors.

RUSH SERVICE
SEND YOUR
LAST MINUTE XMAS ORDERS
TO THE
M. RICE CO.
LEADING FLORISTS' SUPPLY AND RIBBON HOUSE
1220 Race St., Phila, Pa.
Mention HORTICULTURE when writing

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

CHICAGO NOTES.

Among the salesmen back for the holidays are Clifford Pruner and A. F. Longren of the Poehlmann Bros. Co., and Guy Reyburn of A. Henderson Co.

There was an unusual number of disappointed plant buyers in the city the past week. Plants in bloom had been bought up days ago and plants that should be in bloom are waiting for the sunshine.

H. E. Philpott, who came down from Winnipeg, Man., Canada, to secure Christmas stock, says that in his 32 years there, he has not known so warm a December. After a brief cold spell warm weather followed and now it is like spring.

Visitors: Mr. and Mrs. Geo. S. Balsley, Detroit, Mich.; Mrs. S. J. Hillyer, Austin, Tex.; H. J. Peterson, Chicago Heights, Ill.; Mr. Beyer, of Beyer Floral Co., South Bend, Ind.; Mrs. Evans, La Salle, Ill.; H. E. Philpott, Winnipeg, Man.; S. W. Coggan, Battle Creek, Mich.

The excursion given by the Chicago Carnation Co. to its plant at Joliet on Dec. 12 was attended by 53, almost without exception, growers. The chief object of the visit was to see Peerless Pink, their new carnation for 1914 and The Herald, the red sent out last year. The weather had been so far from favorable that the stock did not look its best, but there were many approving comments on both varieties. The Chicago Carnation Co., noted for its hospitality, lived up to its reputation in the way of good things to eat, and after an inspection of the entire plant the company returned to Chicago much pleased with their day at Joliet.

Holiday preparations. Cut out the red ruscus and half the Christmas coloring would disappear. It is given place of honor in window decorations, in hampers, in wreaths, in vases and among the branches of the box trees. The quantity used in Chicago alone would be hard to estimate, but dealers who handled it in pounds two years ago are now using it by tons. That the use of prepared materials is going to be overdone is without a doubt. While the large department stores cannot be said to have equalled former years in artistic decorations the retail florists have shown much taste and their windows are not so crowded as often they have been. Some of the prettiest ones are entirely in red and green. Araucarias, very much red ribboned, are strongly featured in many stores. The only really new material is the thistle, large and dyed brilliant red, and a few of these were shown last year. They are a success already for brightening up wreaths and baskets. Christmas bells appear to be as popular as ever.

PERSONAL.

N. A. Crisman has been appointed city florist of Phoenix, Ariz.

Adam H. Graham, Jr., has been appointed director of public service of East Cleveland, Ohio.

Otto Ackerman of the Riverside Floral Company, Columbus, Ohio, and Miss Mabel Belle Taylor, were married last week.

Clifford Paden has been appointed superintendent for the George H. Mellen Company, succeeding the late Christian Binnig.

James McGilvray, president of the Pasadena Horticultural Society, has been appointed greenhouse superintendent at Eastlake Park, Los Angeles, Cal.

H. C. Neubrand, who has been identified with the seed trade of Providence, R. I., for the past eleven years, has accepted a position as traveling salesman for A. N. Pierson, Inc., Cromwell, Conn. Mr. Neubrand has the requisite qualifications for a popular salesman and his selection to represent the big Cromwell establishment on the road, looks like excellent judgment.

New York visitors: E. H. Wilson, Arnold Arboretum, Boston; P. Welch, Boston; William McAlpine, Boston.

Boston visitors:—Louis Sander, Bruges, Belgium, and D. Cameron representing F. Sander & Sons, St. Albans, England; Ed. Gurneay, Montreal, P. Q.; Henry J. Hass, Newport, R. I.

NEWS NOTES.

Elgin, Ill.—Charles Swaby has purchased the Swaby Greenhouse.

Knoxville, Tenn.—The organization of a Florists' Club is contemplated here and preliminary steps towards this have already been taken. It is hoped to hold a chrysanthemum show next year.

Providence, R. I.—A large tree was blown down Monday night, Dec. 15, crushing in its fall a greenhouse filled with azaleas and other Christmas plants, belonging to The Westminster Greenhouses, Inc. The plants were mostly ruined.

Boston—A novelty in Galvin's show window is Acacia platyptera. This odd species has never to our knowledge been offered here before as a commercial flowering plant. It has a certain beauty in the character and arrangement of its bright golden flowers but the peculiar flat and winged stems and foliage are not graceful or particularly attractive as acacias go.

H. A. Stevens, of Dedham, has a very promising violet, a seedling from the Princess of Wales. It differs from that popular variety in being fuller in flower, the wings and base petals being broader and the whole blossom showing a wavyness suggestive of the Spencer sweet pea. The blooms average 1½ inches across.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

GEORGE H. COOKE

FLORIST

Connecticut Ave. and L St., N. W.

WASHINGTON, D. C.

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.

Palmer's

304 Main Street

BUFFALO, N. Y.

Members Florists' Telegraph Delivery Association

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

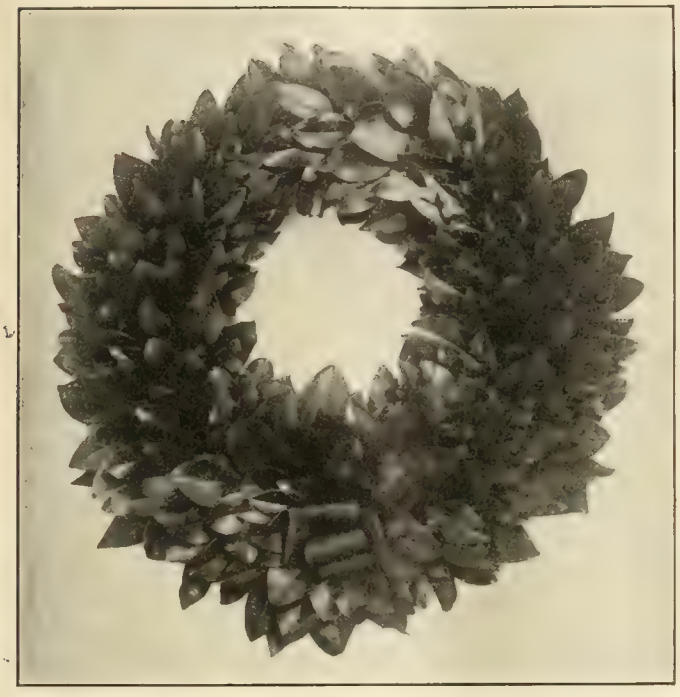
Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

When writing to advertisers kindly mention HORTICULTURE.

Something New Mr. Retailer





MADE UP WREATHS Ready for Immediate Delivery

Of MAGNOLIA LEAVES, Brown, Green, Red and Purple, and CYCAS LEAVES

Magnolia Wreaths

Made on	Each
18 in. frame	$1.75
21 in. frame	2.25
24 in. frame	3.00

Cycas Wreaths

Made on	Each
21 in. frame	$3.00
24 in. frame	3.50

These quotations are for the finished article. Packed in Plain Boxes. We also have a complete line of Wreaths, artistically arranged with combinations of Magnolia, Cycas and Ruscus. These designs are made up on well mossed wire frames such as are used by all first class Florists. We carry a complete line of Florists' Supplies.

Long Distance Phone Central 2358

HARRY C. ROWE, 105 N. WABASH AVE. CHICAGO

A Christmas Necessity HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.		
2	15 " "	3.50 " "		5	30 " "	6.50 " "		
3	18 " "	4.00 " "		6	36 " "	9.00 " "		

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

25 Years' Experience

Making Flower Selling Refrigerators for Stores and Greenhouses. Perfect Refrigeration Ice Economy. Ask for Catalog X3.

United Refrigerator and Ice Machine Co., Kenosha, Wis.

UNITED REFRIGERATION KENOSHA WIS.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

THE Florists' Supply House of America

H. BAYERSDORFER & CO.
1129 Arch St., Philadelphia, Pa.

When writing to advertisers kindly mention HORTICULTURE.

MOTHER OF PEARL LETTERS
THE LATEST NOVELTY
GOLD LETTERS
Send for Prices.
AMERICAN IMPORTING CO.
219 So. Dearborn Street, Chicago

Gardenias

They are more plentiful, and from now on we expect to be able to take care of all orders. Let us book your order for your weekly needs in Gardenias. This stock is splendid condition, fine, large flowers.

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA
Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the BOSTON
Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI December 15	CHICAGO December 15	BUFFALO December 15	PITTSBURG December 15
Am. Beauty, Special	20.00 to 25.00	75.00 to 100.00	40.00 to 50.00	..... to 50.00
" " Fancy and Extra	15.00 to 20.00	50.00 to 75.00	20.00 to 35.00	35.00 to 40.00
" " No. 1	10.00 to 15.00	25.00 to 50.00	12.00 to 15.00	20.00 to 25.00
Killarney, Extra	6.00 to 10.00	15.00 to 25.00	8.00 to 10.00	8.00 to 12.00
" Ordinary	3.00 to 5.00	6.00 to 12.00	3.00 to 6.00	4.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 10.00	25.00 to 35.00	8.00 to 10.00	10.00 to 15.00
" " Ordinary	4.00 to 6.00	12.00 to 20.00	4.00 to 6.00	6.00 to 8.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00 to 10.00	20.00 to 30.00	8.00 to 12.00	8.00 to 12.00
" " " Ordinary	3.00 to 5.00	8.00 to 15.00	4.00 to 6.00	..... to 6.00
Russell, Shawyer	..... to	..... to	10.00 to 12.00	..... to .....
Carnations, Fancy	3.00 to 5.00	8.00 to 12.00	3.00 to 4.00	4.00 to 6.00
" Ordinary	2.00 to 3.00	6.00 to 8.00	2.00 to 3.00	..... to 3.00
Cattleyas	60.00 to 75.00	75.00 to 100.00	40.00 to 50.00	50.00 to 75.00
Cypripediums	..... to	..... to	12.00 to 15.00	..... to 15.00
Lilies, Longiflorum	8.00 to 10.00	12.00 to 15.00	10.00 to 12.00	..... to 15.00
Callas	6.00 to 8.00	8.00 to 12.00	10.00 to 12.00	..... to .....
Lily of the Valley	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	..... to 3.00
Freesias	2.00 to 3.00	..... to	..... to	..... to .....
Violets	.75 to 1.00	1.50 to 2.00	.75 to 1.00	.75 to 1.25
Daises	.75 to 1.00	1.00 to 2.00	..... to 1.00	..... to 3.00
Sweet Peas	1.00 to 2.00	1.50 to 2.00	.50 to 1.00	.50 to 1.00
Gardenias	25.00 to 30.00	40.00 to 50.00	..... to	40.00 to 50.00
Adiantum	1.00 to 1.25	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.00 to 15.00	12.00 to 15.00	..... to 15.00	..... to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	35.00 to 50.00	20.00 to 35.00	35.00 to 50.00
" " & Spren. (100 bchs.)	25.00 to 40.00	35.00 to 50.00	25.00 to 35.00	35.00 to 50.00

BUY **BOSTON FLOWERS**
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

PETER REINBERG
WHOLESALE CUT FLOWERS
37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone, Main 80

CHICAGO CARNATION CO.
A. T. PYFER, Manager
30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON Flower trade in Boston is very quiet and the result has been a sagging in prices all down the line, due to over weight and primarily to the fact that the first of the Christmas crop is now in evidence—pushed along a bit by the soft skies and balmy breezes that don't belong in December. Carnations are not feeling the situation as much as the roses and while the latter are tending downwards in market value the carnations are really stiffening up. Still the demand is weak on everything. Violets are doing exceedingly well, everything considered. There are a good many chrysanthemums still hanging on. Lily of the valley is abundant and paper white narcissi are overdone most decidedly. Lilies are about normal, also cattleyas. The American Beauty market is holding its own as a speculative proposition, but the sensational holiday values of this old campaigner are gone, never to return.

CHICAGO Sales are not especially brisk this week, a sort of lull before the storm seeming to pervade the market. Social events for the holidays are hardly under way at this writing. Orders are being booked for cut flowers and the general trend is to make sure of stock well in advance, as the feeling seems well rooted that a shortage is quite possible. However, those who are in closest touch with the growers know that a few days of sunshine would work wonders with the buds, and they would not be surprised if stock would be sufficient to lower the prices quoted. The weather is cooler than last week, which makes the quality of all flowers better. Violets are arriving from the east in good condition, and home-grown singles are also excellent in quality. Carnations have become harder with cooler temperature, and there is a good supply of roses. A few chrysanthemums are seen, but hardly enough to warrant quotations. Lily of the valley is in good supply and orchids are moving as fast as received. All kinds of green is of good quality and supply is sufficient.

PHILADELPHIA No marked change in the market here during the past week. Conditions remain about the same and are neither very bad nor very good; may be summed up in the words of Arthur Niessen as "fair." Plenty of good stock in roses, carnations, gardenias and everything else. Prices hold firm but no advance. Prospects for Christmas are that there will be plenty of good stock at very reasonable prices. Crops are excellent, especially in the higher grades. Greens market very active. Boxwood scarce but good supply in the right spots and of fine quality.

ST. LOUIS Business so far this month has not been any too good. The retailers report the bulk of their work is for funerals and little of anything else going on. The wholesale markets

Continued on page 883

Christmas Greens and Ribbons



BOXWOOD SPRAYS

We guarantee the quality of our Boxwood; exceptionally fine stock, dark, glossy green; no surplus wood. 50-lb. cases, $8.00.

HOLLY WREATHS

Of the best Holly, made full, plenty of berries, $17.50 per 100; larger size, $50.00 per 100; extra large and very fine, $75.00 per 100.

HOLLY

Specially selected. $5.00 per case.

GALAX. Bronze and green, $1.00 per 1000; $7.50 per case of 10,000.
NATURAL MAGNOLIA LEAVES. Green, $1.00 per 100; $7.50 per 1000.
BRONZE AND GREEN MAHONIA. $1.50 per 100; $12.50 per 1000.
CHESTNUT OAK. $2.00 per 100, $15.00 per 1000.
LEUCOTHOE. Bronze and green. $1.00 per 100; $7.50 per 1000.
MEXICAN IVY. $1.00 per 100, $7.50 per 1000.
LONG NEEDLE PINES. $20.00 per 100.
LAUREL ROPING. Extra heavy $6.00 per 100 yds.
CUT LAUREL BRANCHES. $6.00 per 100 lbs.
FANCY FERNS. $2.00 per 1000.
WILD SMILAX. $5.00 per case.
LYCOPODIUM, or GROUND PINE. $10.00 per 100 lbs.; $10.00 per 100 yds.
HARDY DAGGER FERNS. Best quality, large fronds. $1.50 per 1000; extra long, $2.00 per 1000.
CUT HEMLOCK. $2.50 per bundle.
GREEN SHEET MOSS. $3.50 per bag.
MISTLETOE. $12.50 per case.
WOODWARDIA FERN. $25.00 per 100; $6.50 per bunch of 25.
GREEN LUMP MOSS. Extra large bbls., $2.00.
FLORIDA GRAY MOSS. $4.00 per bag.
SPHAGNUM MOSS. Burlapped. 10-bbl. bales, $3.75 each; 5-bale lots, $3.50 each; 10-bale lots, $3.25 each.

RIBBONS We offer a large assortment of Red Ribbons and Chiffons in various widths and qualities and will be pleased to submit samples on request

RED RUSCUS Extra quality, 75c. per lb.; special prices on lots of 25 lbs. or more.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. NEW YORK 117 West 28th St. BALTIMORE Franklin & St. Paul Sts.
WASHINGTON 1216 H. St. N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON December 18			ST. LOUIS December 15			PHILA. December 15		
Roses									
Am. Beauty, Special	40.00	to	50.00	25.00	to	40.00	25.00	to	35.00
" " Fancy and Extra	25.00	to	35.00	18.00	to	30.00	15.00	to	20.00
" " No. 1	15.00	to	20.00	10.00	to	15.00	5.00	to	12.50
Killarney, Extra	8.00	to	12.00	6.00	to	10.00	6.00	to	10.00
" Ordinary	4.00	to	6.00	4.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	8.00	to	16.00	8.00	to	12.00	10.00	to	12.00
" " Ordinary	5.00	to	6.00	5.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	16.00	6.00	to	10.00	6.00	to	15.00
" " " " Ordinary	6.00	to	8.00	4.00	to	6.00	4.00	to	6.00
Russell, Shawyer		to	20.00		to		5.00	to	25.00
Carnations, Fancy	3.00	to	5.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	2.00	to	3.00	2.00	to	2.50	2.00	to	3.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	40.00	to	60.00
Cypripediums		to	15.00		to		10.00	to	15.00
Lilies, Longiflorum	8.00	to	10.00	12.00	to	15.00	10.00	to	12.50
Callas		to	12.00	8.00	to	12.00	10.00	to	15.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths		to	2.00	.60	to	4.00	1.00	to	3.00
Freesias		to		3.00	to	4.00		to	
Violets	.75	to	1.50	.40	to	.75	.75	to	1.00
Daisies		to	1.00		to		.50	to	1.00
Sweet Peas		to	1.00	.50	to	.75	.50	to	1.00
Gardenias	25.00	to	35.00		to		25.00	to	50.00
Adiantum	.75	to	1.00	1.00	to	1.25		to	1.00
Smilax	15.00	to	17.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	25.00	15.00	to	25.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 609} MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. {1593 5893} Mad. Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Dec. 13 1913	First Half of Week beginning Dec. 15 1913
American Beauty, Special	35.00 to 50.00	25.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	12.00 to 15.00
" " No. 1	10.00 to 15.00	10.00 to 12.00
Killarney, Extra	5.00 to 12.00	6.00 to 12.00
" Ordinary	3.00 to 4.00	3.00 to 5.00
Richmond, Hillingdon, Extra	6.00 to 15.00	10.00 to 20.00
" " Ordinary	3.00 to 4.00	3.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	10.00 to 20.00
" " Ordinary	4.00 to 5.00	4.00 to 5.00
Russell, Shawyer	15.00 to 20.00	15.00 to 20.00
Carnations, Fancy Grade	3.00 to 6.00	3.00 to 8.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1664 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7002 Madison

HENRY M. ROBINSON, Pres. MAURICE L. GLASS, Treas.
CHAS. E. ROBINSON, V-Pres. JOSEPH MARGOLIS, Secy
HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST....NEW YORK CITY
Special Attention to the Shipping Trade

WHOLESALE FLORISTS
A. L. Young & Co.
54 West 28th St. New York
Consignments Solicited

TO GROWERS

Determining the financial responsibility of your consignee is as important as selecting the best flowers to grow. We have the best of references for the ten years we have been in business, from our bankers and our growers, which we will cheerfully furnish upon application.

We desire a few more shippers and if you consign to us we can assure you that we will most conscientiously endeavor to justify whatever confidence may be reposed in us.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.
Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 881)

also complain of slack business. The only scarcity just now is violets, and it seems the crop will be greatly decreased this year owing to the bright, clear and warm weather. This of course brought out other stock. Carnations are quite plentiful. Roses, too, are in plenty all around, with prices low. Killarney are in the majority. Roman hyacinths, lily of the valley, paper whites and stevia are slow in demand and plenty of them; lilies not any too many at present.

NEW YORK Market conditions this week are not quite as bright as they were a week ago. This is commonly the case previous to the Christmas rush and then the weather has been unusually salubrious and favorable for flower production, and any movement to advance prices because of the approach of the holidays or to hoard stock for anticipated rise in value is evidently doomed from the start. The outlook is that there will be a plentiful supply of roses, carnations, lily of the valley, orchids, gardenias—in fact, there are no indications of scarcity on anything during Christmas week. Present quality, and quality indicated for next week, are all that could be desired. There seems to be more or less of a feeling among the retailers that the plant trade for Christmas has reached its zenith and it would not surprise many of them if not a few plants should be left on their hands. This view is based in part on the supposition that cut flowers will be available in plenty, of fine quality and at little advance above what are regarded as normal prices. The renewed interest in rose growing, the great variety of fine roses now available and the excellent condition in which they are put on the market, are strong factors in the situation. The outlook for violets is somewhat dubious, and any inflation of prices on these will surely result in disaster. Shipments of southern asparagus have fallen off and the home-grown material will now have a living chance.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 13 1913	First Half of Week beginning Dec. 15 1913
Cattleyas	40.00 to 75.00	40.00 to 75.00
Cypripediums	..... to 12.00	..... to 12.00
Lilies, Longiflorum	6.00 to 12.00	8.00 to 12.00
Callas	..... to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	..... to	..... to .....
Violets	.25 to .40	.25 to .40
Daises	1.00 to 2.00	.50 to 1.00
Sweet Peas	.... to 1.00	1.00 to 2.00
Gardenias	15.00 to 35.00	15.00 to 35.00
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings per 100	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	8.00 to 15.00	8.00 to 15.00

FREE HORTICULTURAL LECTURES AT BOSTON.

The Lecture Committee of the Massachusetts Horticultural Society has issued its annual program of free lectures on horticultural subjects to be given at Horticultural Hall, Boston, during January, February and March, on Saturdays at 2 o'clock P. M., unless otherwise stated.

A special feature of the course this season will be a school of instruction in orchard work with lectures and demonstrations by experts in the various phases of fruit growing. The subjects and dates are as follows:

January 3.—"Utilizing Birds in Horticulture" (illustrated), by Edward H. Forbush, Boston.

January 10.—"Flower Groupings in a Michigan Garden" (illustrated), by Mrs. Francis King, Alma, Mich.

January 17.—"The Hybrid Tea Rose of Today," by George H. Peterson, Fair Lawn, N. J.

January 31.—"Soils and Fertilizers," by Dr. Henry J. Wheeler, Boston.

February 7. "Agriculture in Holland and Denmark," by Hon. J. Lewis Ellsworth, Worcester.

February 14. "Making a New Variety of Asparagus," by J. B. Norton, Washington, D. C.

February 24-28.—Extension School in Pomology, conducted by the Mass. Agricultural College, under the auspices of the Mass. Horticultural Society. Lectures as follows:

Tuesday, February 24.—9.30 A. M., "Variety of Fruits," Dr. J. K. Shaw; 10.45 A. M., 'Orchard Sites," Prof. F. C. Sears; 1.00 P. M., "Fertilizers for the Orchard," Mr. Henri Haskins.

Wednesday, February 25.—9.30 A. M., "Establishing the Orchard," Mr. R. W. Rees; 10.45 A. M., "Factors Influencing the Quality of Fruits," Dr. Shaw; 1.00 P. M., "Orchard Pests," Prof. W. W. Chenoweth; 2.15 P. M., "The Spraying Campaign," Mr. Rees.

Thursday, Febraury 26.—9.30 A. M., "Soil Management in the Orchard," Mr. Rees; 10.45 A. M., "General Principles of Pruning," Prof Chenoweth; 1.00 P. M., "Demonstration of Pruning," Mr. Rees and Prof. Sears.

Friday, February 27.—9.30 A. M., "Grafting and Budding," Prof. Chenoweth; 10.45 A. M., "Picking and Handling Fruit," Prof. Sears; 1.00 P. M., "Packing Apples in Boxes," Mr. Rees; 2.15 P. M., "Packing Apples in Barrels," Prof. Sears.

Saturday, February 28.—9.30 A. M., "Can We Sell Our Apples?" Prof. F. A. Waugh; 10.45 A. M., "Pear Growing," Hon. Wilfrid Wheeler; 1.00 P. M., "Cooperation Among Fruit Growers," Dr. A. E. Cance; 2.15 P. M., "Peach Growing," Prof. Waugh.

March 7.—"Nut Culture" (illustrated), by Prof. E. R. Lake, Washington, D. C.

March 21.—"Undesirable Foreign Plant Diseases," by Dr. Perley Spaulding, Washington, D. C. "The John Lewis Russell Lecture."

Discussion.—After the reading of papers opportunity will be afforded for full discussion of the subjects.

All are freely and cordially invited to attend.

WILFRID WHEELER, Chairman,
GEORGE B. DORR,
F. C. SEARS,
Committee on Lectures and Publications.

Boston, December 15, 1913.

FIRES.

Philadelphia, Pa.—Fire in the greenhouse of Joseph Smith, Mt. Airy and Stenton avenues, last week, caused a damage of $100.

Brooklyn, N. Y.—The Botanic Garden Conservatories and Laboratory Building of the Brooklyn Institute have been opened to the public.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Thomas Roland, Nahant, Mass.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

ANEMONE

Anemone Japonica—Strong, field-grown plants in 8 varieties, $3.50 per 100. PALISADES NURSERIES, Sparkill, N. Y.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., New York.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.
For Christmas
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

BOILERS—Continued

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD

McCallum Co., Pittsburgh, Pa.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Jersey Grown Callas
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

Patten & Co., Tewksbury, Mass.
Princess Dagmar
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PLANTS

J. A. Peterson & Sons, Cincinnati, Ohio.
For page see List of Advertisers.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Shepard's Garden Carnation Co.,
292 Fairmount St., Lowell, Mass.
Chrysanthemum Stock Plants.
For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.
Elmer D. Smith & Co.'s Novelties.
For page see List of Advertisers.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

C. Winterich, Defiance, Ohio.

Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZEEH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodlow & Marketos, New York City.
For page see List of Advertisers.

J. W. Keller Co., Inc., Brooklyn and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE

Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

DRACAENAS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 859

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Ernest Oechslin, River Forest, Ill.
Ferns for Dishes.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Carbon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

Shell-Marl-Land-Lime. Doubles Farm Crops. Best and Cheapest. 90 per cent. soluble-available carbonate; not caustic; no magnesia; dry. Carloads only. Catalogue. VERMONT MARL CO., Brattleboro, Vermont.

FLORISTS' LETTERS

Boston Florist Letter Co., Boston, Mass.
For page see List of Advertisers.

American Importing Co., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers.

FLOWERING PLANTS

A. L. Miller, Brooklyn, N. Y.

FLOWER POTS

W. H. Ernest, Washington, D. C.
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

50,000 S. A. Nutt, all top cuttings, stock plants grown under glass, well rooted, $10.00 per 1000. Cash. ROSS BROS., Du Bois, Pa.

GLADIOLUS

Brookland Gardens, Woburn, Mass.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

100,000 AMERICA, the queen of the gladioli in its color, 3/8 to 3/4 in., $2.75 per 1000 bulblets; 50c., qt.; $2.50, peck.
TACONIC, bright pink striped, deeper shading, line pale yellow, large flower, vigorous grower, fine for florists, 3/8 and 1/2, $5.00; 3/4 to 1, $8.00; 1 1/4 to 1 1/2, $10.00; 1 1/2 to 1 3/4, $12.00; 1 3/4 up, $15.00 per 1000; bulblets, $1.00 per quart. Carefully grown and cured. HOMER F. CHASE, Haverhill Road, Lawrence, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

Bird Steel-frame Greenhouse Co., Inc., New York City.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Pierson U-Bar Co., New York City.

J. C. Moninger Co., Chicago, Ill.

GREENHOUSE CONSTRUCTION—Cont.

Foley Greenhouse Mfg. Co., Chicago, Ill.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York
For page see List of Advertisers.

HART'S HANDY HANDLES

Geo. B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Bird Steel-frame Greenhouse Co., Inc., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.
For page see List of Advertisers.

The H. A. Stoothoff Co., Mt. Vernon, N. Y.
Aphicide Powder.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp Plant Food and Soap Spray.

JACK FROST MATS

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash F. SOKOL, Worcester, Mass.

In writing to Advertisers kindly mention Horticulture

LAURUS

Laurus Cerasus: Bush, 35c $1.00 each; Standards, $7.50 $10.00 each; Pyramids $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILIUM MACULATUM (HANSONI)

Mt. Desert Nurseries, Bar Harbor, Me.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Lily Bulbs.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

August Rolker & Sons, New York.
Cold Storage Longiflorum.

Yokohama Nursery Co., Ltd., New York.
Lilium Giganteum and Speciosum Bulbs.
for Forcing.
For page see List of Advertisers.

J. Roehrs Co., Rutherford, N. J.
Roehrs Celebrated Valley.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Cold Storage.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Forcing Shrubs and Plants.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.

50,000 Transplanted Shrubs—Almost given away; prices are very low in all sizes from lining out stock to specimens. Ask for list. PALISADES NURSERIES, Sparkill, N. Y.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

PEAT

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES

J. M. Thorburn Co., New York City.
Peony and Bleeding Heart Roots.
For page see List of Advertisers.

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

Phlox—Perennial, Prof. Schleiman, Mrs. Jenkins, Miss Lingard, Indian Chief and others. Strong, 2-year field roots, $3.50 per 100; $30.00 per 1000, mixed, all colors, $2.00 per 100, $15.00 per 1000. PALISADES NURSERIES, Sparkill, N. Y.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POTASH

German Kali Works, Inc., New York City.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

POWER AND SPRAY PUMPS

C. J. Jager Co., Boston and Providence.
For page see List of Advertisers.

RAFFIA

McHutchison & Co., New York City.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Rambler Roses for Forcing and Gardening.

S. J. Reuter & Son, Inc., Westerly, R. I.
New Rose Prince E. C. De Arenberg.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York
Boddington's Quality Flower Seeds
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

For List of Advertisers See P 589

SEEDS—Continued

Loechner & Co., New York City.
For page see List of Advertisers.

T. J. Grey Co., Boston, Mass.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., New York City.
For page see List of Advertisers.

J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SNAPDRAGONS

H. Huebner, Groton, Mass.
New Winter-Flowering.

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots, $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Industry Moss & Peat Co., Waretown, N. J.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Spiraea Clumps.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
J. Bolgiano & Son, Baltimore, Md.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
Improved Ventilator Arm.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets—Strong, field-grown plants, $5.00 per 100. Double Hardy English, Princess of Wales, La France, Gustav Wermig (Summer Violet). PALISADES NURSERIES, Sparkill, N. Y.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, 131 W. 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55 W. 26th St.
For page see List of Advertisers.

J. K. Allen, 106 W. 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Philadelphia

B. S. Slinn, Jr., 55 and 57 West 26th St.
For page see List of Advertisers.

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

ASPARAGUS ROOTS FOR FORCING.

Warren Shinn, Woodbury, N. J.
For page see List of Advertisers.

CHOICE GLADIOLI.

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

CHRISTMAS GREENS AND RIBBONS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GARDENIAS.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS, HELIOTROPES AND MARGUERITES.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

HOLIDAY WREATHS.

Harry C. Rowe, Chicago, Ill.
For page see List of Advertisers.

LILIUM GIGANTEUM.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

NEW RED ROSE, "FRANCIS SCOTT KEY."

John Cook, Baltimore, Md.
For page see List of Advertisers.

PLANT POTS AND PEDESTALS.

Jones, McDuffee & Stratton Co., Boston, Mass.
For page see List of Advertisers.

SURPLUS SPIREAS, ETC.

Burnett Bros., New York City.
For page see List of Advertisers.

HELP WANTED

WANTED

In an up-to-date retail greenhouse establishment **A MAN CAPABLE OF GROWING** good roses and a general knowledge of carnations and pot plants. **GOOD POSITION** for man of hustle and ability.

J. M. WARD & CO.,
Peabody, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

WEED EXTERMINATION.

(Dr. G. E. Stone, in Annual Report of Mass. Agri. Exper. Station.)

In recent years a great deal has been done along the lines of weed extermination, and many different methods have been experimented with and some of them adopted. There are several proprietary articles and mechanical devices on the market purporting to solve some of the phases of the weed question, but most of them are rather expensive when used on a large scale. When one needs only a small amount of weedicide, however, it is better to buy the easily procured proprietary article than to bother with the crude material, which is often hard to obtain.

Sulfate of iron has proved valuable in the west for the extermination of such tender plants as mustard and others when used as a spray in grain fields, and it can also be used for killing dandelions in lawns. It is inexpensive when bought in bulk, although the proprietary article, consisting of pulverized sulfate of iron mixed with nitrate of soda and sand and put out in expensive containers, is not so cheap. Arsenate of soda, which can be bought in bulk or as a commercial article, and similar compounds are also used as weed killers.

Of the several mechanical devices used for weed extermination, some are designed to pull up the weeds and others to kill them by injecting poisonous chemicals into the roots, while still others do the work by burning. Even electricity has been tried, but with rather unsatisfactory results, since considerable current is required to kill even small plants. Salt, copper sulfate, carbolic acid, nitrate of soda and many other materials have been used as weed killers, and undoubtedly in the future cheaper and more efficient methods will be found.

Arsenate of Soda.

Arsenical compounds appear to be the most poisonous to weeds. Of these, arsenate or arsenite of soda is usually employed, and is especially valuable for destroying weeds in dirt walks, roads, ditches and tennis courts and for killing poison ivy about trees, buildings, stone walls, etc. It is very poisonous to plants and lasting in its effects. One or two applications at the rate of 10 gallons of the solution per square rod (made up of 1 pound of the arsenate of soda to 5 or 10 gallons of water) will last for some years. This substance does not appear to leach out of the soil to any extent, while many others used as weed killers either volatize quickly or leach out through the soil, producing only a temporary effect. Arsenate of soda can be used to advantage also in treating 4 or 5 inches of a lawn close to the foundations of buildings, to save clipping by hand the tall grass which cannot be reached with a lawn mower.



Watering Can with Device for Applying Arsenate of Soda.

The most satisfactory way to apply arsenate of soda is by means of a sprinkler with an attachment to direct the spray. With this device it is possible to treat walks up to the very edge without injuring the grass in the least. A single drop of arsenate of soda will injure any vegetation it touches, so care must be used in handling it; therefore this little attachment is valuable for directing the liquid. Arsenate of soda should not be used too freely near the feeding roots of trees, but we have never noticed any injury from treating walks near shrubbery or even within a few feet of large trees.

Weeds in Lawns.

To insure a heavy growth of grass and absence of weeds a lawn should have a good, deep foundation of rich soil, well supplied with organic matter and plant food. It is also important that the soil should possess the proper physical properties or texture in order to produce a good growth of grass, and it should have sufficient water-retaining capacity to enable the grass to endure drought. A soil of medium texture well provided with loam, with a water-retaining capacity of about 70 per cent., is much better than a course soil of less water-retaining capacity; for in seasons of drought the coarse soil will dry out very quickly and the grass will suffer, whereas the reverse is true of the fine soil. The weed proposition loses some of its importance if the lawn is well made, since a good growth of grass will crowd out the weeds. New lawns are more troubled with weeds on this account. One of the worst weeds affecting new lawns is crab grass (*Digitaria humifusa*), but it lasts only a year or two, as a rule. It is much more troublesome on dry lawns, where the catch of grass is poor. Frequent close cutting of the grass in the fall is a good preventive, since the seed is not allowed to mature. Two of the plantains, *P. lanceolata* and *P. major*, are troublesome in lawns, more especially where the grass is thin. Cutting plaintain at different distances from the roots with a special device has not always proved satisfactory, and our observations have shown that when cut in this way a large percentage of the plants renew their growth. This appears to be true, also, of the dandelion.

The stems of plantain are, as a rule, only about ¾ or 1 inch in length, and if cut quite deep below the surface of the ground a considerable percentage could possibly be destroyed.

(To be continued)

APHICIDE POWDER
(FORMERLY THE FUMIGATING KIND)
KILLS ALL APHIS
$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.
WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU
If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back,
Mail Order Direct to Us.
THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW
POWER AND SPRAY PUMPS
OF ALL KINDS
A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.
C. J. JAGER COMPANY
13-15 Custom House Street Boston 33 Canal Street Providence R I

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
(NO ODOR) INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Don't Neglect Fall Spraying **"SCALECIDE"** Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF.

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "12", 50 Church Street, New York City.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK 40 Per Cent Strength **For Fumigating**

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27& 29 OCEAN ST., ∴ BEVERLY, MASS.

Nikotiana

Twelve percent Nicotine

SPRAY AND FUMIGANT

NIKOTIANA is a 12% nicotine solution specifically adapted for fumigating or vaporizing greenhouses.

NIKOTIANA is vaporized over small lamps or by painting o nsteam pipes

VAPORIZING with **NIKOTIANA** fills the house with nicotine fumes which will effectively destroy the insects intended for.

FUMIGATING with tobacco paper or tobacco dust fills the house with smoke which is not beneficial to plant life.

Quarts, $1.50 — Gallons, $4.50

For sale by seedsmen and supply houses

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

APHINE FUNGINE
SCALINE VERMINE

British Distributors:

British & American Fertilizing Company
Liverpool, England



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

When writing to advertisers kindly mention HORTICULTURE.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

Obituary

Pearl V. Winters.

Miss Pearl V. Winters, employed by C. R. Tuson, Windsor, Ont., for the past six years, dropped dead on Dec. 2nd. She was 24 years of age.

D. McGillivray

Donald McGillivray, for many years in the gardening and florist business in Brattleboro, Vt., and Newport, N. H., died on December 6, after an illness extending over several months, aged 59 years. He was a native of Scotland, where he received his education as a gardener. He was a member of the S. A. F. from 1888 to 1901 and attended many of the conventions during that period and proved himself a pleasant companion to all those with whom he was thus associated.

NEWS NOTES.

Queens, N. Y.—The American Nursery Company has increased its capital stock to $200,000.

Fergus Falls, Minn.—E. A. Isaacson has purchased the business and greenhouses of S. N. Mehlin.

Reading, Pa.—Moyer Bros. have moved from 245 S. 10th St. to Eighth and Cherry.

Providence, R. I.—W. P. Carpenter, station master of Union Station, has purchased the depot flower stand.

Dayton, O.—M. J. Altschul and A. O. Swope are contemplating the establishment of a wholesale flower market.

Louisville, Ky.—A fire in the greenhouses of John Skrobank, Taylor blvd. and Park View, destroyed his entire stock as well as his potting shed, boiler house and coal shed. His loss is placed at $3,500 with no insurance.

Daytona, Fla. — Leon Despland has purchased a lot of land on Magnolia avenue on which he proposes to build a two-story building, to which he will remove the business of the Daytona Floral Company, of which he and his wife are the proprietors.

Pittsburgh, Pa. — Samuel McClements has purchased the interest of P. S. Randolph and will continue the business under the old firm name of Randolph & McClements. Mr. Randolph will hereafter give his time to the business of P. S. Randolph & Sons at Verona, Pa.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.60	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

GREENHOUSES BUILDING OR CONTEMPLATED.

Ada, Okla.—W. E. Pitt, house 15 x 90.

Wilmette, Ill.—Star Floral Co., addition.

Greeley, Col. — John Leavy, one house.

Liberty, Mo.—G. A. Churchman, one house.

Delavan, Ill. — N. O. Caswell, two houses.

Chula Vista, Cal. — George Cooke, house 25 x 50.

So. Berwick, N. H.—Charles H. Monroe, one house.

New Castle, Ind. — Peter Wyland, range of houses.

Peoria, Ill.—W. H. Kneer, Latrobe street, one house.

New Albany, Ind. — A. Rasmussen, three houses each 25 x 300.

Chicago, Ill.—Michal Bros., 7045 Stoney Island Ave., 2 houses.

Nebraska City, Neb.—G. E. Berthold, Sixth street and First, additions.

Providence, R. I. — C. Schurmann, Walnut Grove, range of houses.

Springfield, O.—Schmidt & Botley, one house 10 x 100; two houses 17 x 100.

Danbury, Ct.—E. E. Mathewson, 63 North street, Lord & Burnham house, 40 x 200.

PATENTS GRANTED.

1,081,097. Flower Holder. Walter S. Daniels, New York, N. Y.

Rubrum: "What's the matter, old man? You look worried."

Roseum: "I have cause to. I hired a man to trace my pedigree for publication in one of the trade papers."

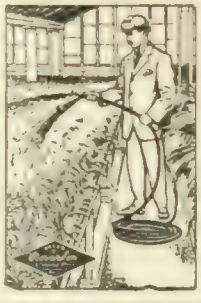
Rubrum: "Well, what's the trouble? Hasn't he been successful?"

Roseum: "Successful! I should say he has! I'm paying him hush money."

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.
FULL SIZE No 2

King Greenhouses
Produce Results
Write for Reasons
KING CONSTRUCTION CO.
28 King's Road North Tonawanda, N. Y.

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.


DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint
The HOSE for the FLORIST
¾ inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½ inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money
W. H. ERNEST
28th & M Sts. Washington, D. C.

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.

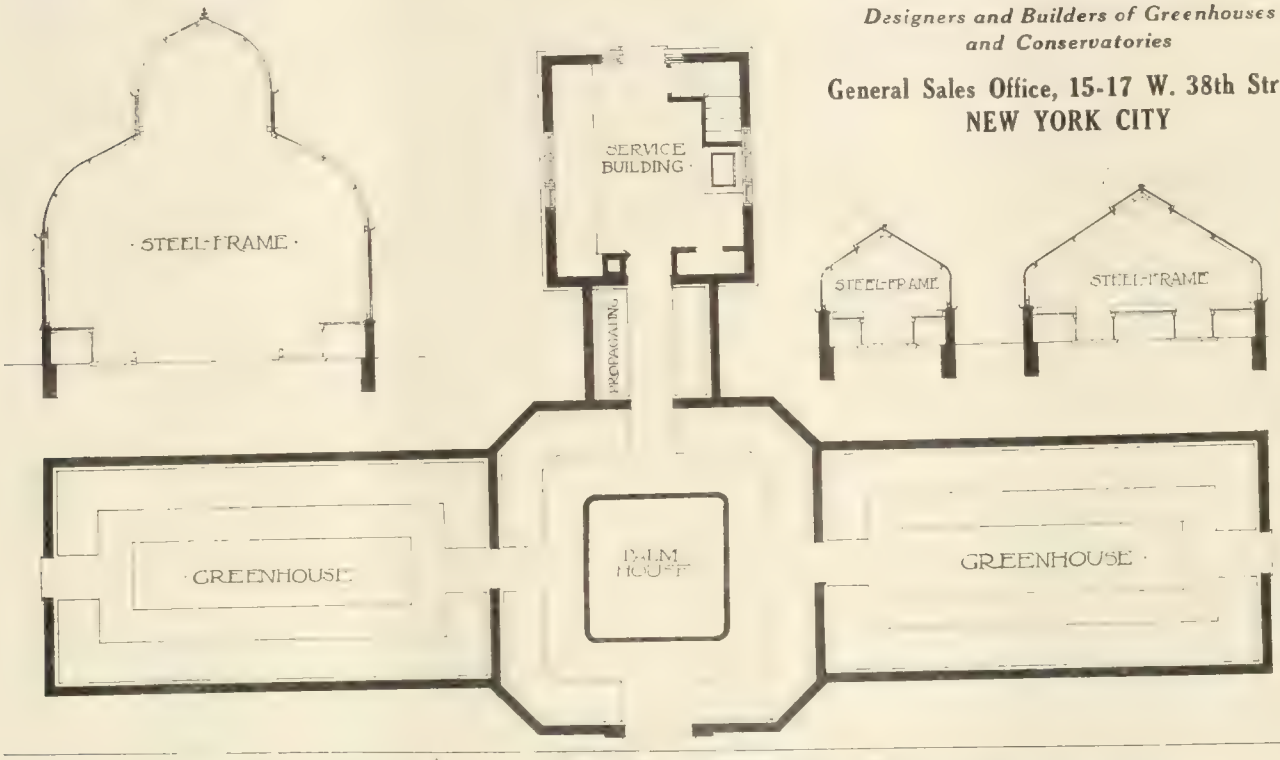
IT IS JUST AS IMPORTANT that practical builders erect your Greenhouse as your residence

We have been in the building business for twenty years

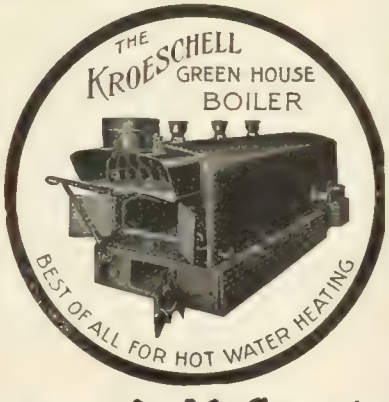
BIRD STEEL-FRAME GREENHOUSE COMPANY, Inc.

Designers and Builders of Greenhouses and Conservatories

General Sales Office, 15-17 W. 38th Street
NEW YORK CITY



Order Now!



Kroeschell Bros. Co.
466 W. Erie Street CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

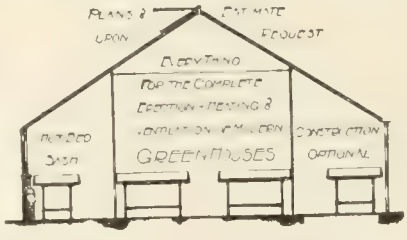
Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

When writing to advertisers kindly mention HORTICULTURE.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

FOR SALE
Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.

ROBT. ROSS JONES, Harrisburg, Pa.
Mention HORTICULTURE when writing



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.



Over 38 Years Old is this Lord & Burnham House at Columbus, Ohio

AS near as we are able to find out, it is probably among the first greenhouses made in this country, constructed with iron rafters.
At the time, it was criticised rather severely by both growers and gardeners as being impractical.
The iron was accused of being "such a conductor of heat that it would cost more to heat than all-wood houses."
Another serious objection was that "there would be a great increase in glass breakage due to the expansion and contraction of the iron."
So you see it was just the same then as it is now, there always a lot of croakers who stand ready to throw stones at improvements, if they are anything of a departure.
This old house erected for the University of Ohio had 3 inch iron rafters, wooden purlins and gutters.
The rafters and purlins are surprisingly good yet. The gutters have, of course, been repeatedly repaired.
On the live place mantel of a friend of mine are these words: "Where young men see visions and old men dream dreams."
What must have been the visions of the heads of this built century old concern when they first conceived the iron framed greenhouse.
If you are one of the progressive sort, who are **seeing visions** about your business, it stands to reason that we can be of material help to you in working with you towards turning the vision of the **things you see, into the things that be.**
We would welcome hearing from you at any time.



Lord and Burnham Company

SALES OFFICES

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	TORONTO, CANADA
42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.



ADVANCE

Ventilating Apparatus and Greenhouse Fittings

are so much better that all of the real critical buyers will have no other kind.

ADVANCE Service Pays

When your order is received, unless special parts are ordered, we ship the same day it reaches us. It costs us something to do this of course, in consideration of the amount of stock we must carry and the kind of men we must employ. But we know that our customers appreciate such service and lots of orders are directed to us on account of our prompt service.

WE WANT YOUR BUSINESS

Our prices are reasonable and the same to each and every one of our customers.

Send for catalog and prices.

ADVANCE CO., 542 N. 14th Street, Richmond, Indiana

HORTICULTURE

Vol. XVIII. DECEMBER 27, 1913 No. 26

LIBR
NEW
BOTAN
GARD



PHALAENOPSIS APHRODITE

Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, $1.00

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER

AGERATUM.

	Trade pkt.	Oz.
Mexicanum album	$0.10	$0.20
Blue Perfection	.15	.50
Imperial Dwarf Blue	.10	.25
Imperial Dwarf White	.10	.25
Little Dorrit	.15	.50
Swanley Blue	.10	.25

Little Blue Star, trade pkt., 25c.; 3 pkts. for 60c.

BODDINGTON'S MAUVE BEAUTY.

Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt., 10c.; oz., 50c.

ALYSSUM.

White Gem.

A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt., 25c.; oz., $1.00.

	Trade pkt	Oz.	¼ lb
Little Gem. Dwarf, best for pots	$0.10	$0.30	$1.00
Carpet of Snow. For hanging baskets and borders	.10	.40	1.25
Sweet (the old variety)	.10	.15	.50

ASTERS.

BODDINGTON'S ASTERS are Famous. Write for catalogue of other varieties and prices.

	Trade pkt.	¼ oz.	Oz.
Aster Early Wonder, White		$0.25	$0.75	$2.00
Aster Early Wonder, Pink	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.

Boddington's Extra Early.

	Trade pkt.	Oz.
Pink	$0.20	$0.85
Light Blue	.20	.85
White	.20	.85
Dark Blue	.20	.85
Crimson	.20	.85
Rose	.20	.85
Flesh Color	.20	.85
Light Rose	.20	.85
Scarlet	.20	.85
Red Lilac	.20	.85
Finest Mixed	.20	.85

BRANCHING ASTERS.

Vick's Branching.

	Trade pkt.	¼ oz.	Oz.
Crimson	$0.25	$0.35	$1.00
White	.25	.35	1.00
Purple	.25	.35	1.00
Violet	.25	.35	1.00
Rose	.25	.35	1.00

Carlson's Branching.

Lavender	$0.25	$0.35	$1.00

Semple's Branching.

Shell Pink	$0.25	$0.35	$1.00
Upright White	.25	.35	1.00

Trade pkt. each of the collection of 8 varieties for $1.75.

	Trade pkt.	¼ oz.	Oz.
Vick's New Early Branching, White		$0.25	$0.75	$2.00
Vick's New Early Branching, Pink	.25	.75	2.00

BODDINGTON'S GIANT ANTIRRHINUM.

(Height, 3 Feet.)

	Trade pkt.	Oz.
Coral Red. Striking color	$0.20	$0.75
Carmine. Splendid color	.20	.75
Daybreak. Light pink	.20	.75
Brilliant. Scarlet, golden yellow and white	.20	.75
Cresia. Dark scarlet	.20	.75
Queen Victoria. Pure white	.25	1.00
Luteum. Yellow	.20	.75
Firefly. Scarlet	.20	.75
Romeo. Deep rose	.20	.75
Lilacinum. Beautiful lilac	.20	.75
Mixed	.20	.50

BEGONIA.

	Trade pkt.
Boddington's Crimson Bedder	$0.50
Erfordii. Carmine	.25
Semperflorens	.25
Vernon grandiflora, ½ ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage	.25

CINERARIA.

Cineraria maritima, ½ ft. Trade pkt., 10c.; oz., 50c.

Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt., 25c.; $1.50 per oz.

CENTAUREA.

	Trade pkt.	Oz.
Candidissima	$0.25	$1.50
Gymnocarpa	.15	.50

GREVILLEA ROBUSTA.

	Trade pkt.	Oz.
(Silk Oak)	$0.10	$0.75

COBAEA.

	Trade pkt.	Oz.
Scandens. H. P. Blue	$0.10	$0.30
Alba. White	.20	.75

LOBELIA.

	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue	$0.15	$0.50
Erinus speciosa. Deep blue; trailing	.15	.75
Crystal Palace compacta	.25	2.50
Emperor William compacta	.25	1.00

MIGNONETTE.

Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt., 60c.; ⅛ oz., $1.00; per oz., $7.50.

MYOSOTIS.

	Trade pkt.	Oz.
Eliza Fonrobert. Excellent for pots, blue	$0.10	$0.50
Palustris Semperflorens. Everblooming	.25	2.00

PETUNIAS.

Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt., 60c.; trade pkt., $1.00.

Boddington's Snowball Double. The finest double; pure white. ½ trade pkt., 60c.; trade pkt., $1.00.

BODDINGTON'S CENTURY PRIZE.

Gigantic single flower having the edges deeply ruffled or flaked. Large size, with deep white throats. ½ trade pkt., 60c.; trade pkt., $1.00.

	Trade pkt
Boddington's Bar Harbor Beauty, Single. Color a beautiful rose	$0.25
Boddington's Ruffled Giants. A grand selection of single fringed Petunias	.50
Boddington's Inimitable Dwarf Compact Hybrids, Single	.25
Emperor, Single. Large blossoms, distinct in form, coloring and marking	.50
Howard's Star. Rich crimson with a distinct white star in center	.25
Rosy Morn. Soft carmine pink	.25
Snowstorm. Pure single white	.25
Hybrids, Single Mixed....Oz., 50c.	.15

PYRETHRUM.

	Trade pkt.	Oz.
Aureum (Golden Feather)	$0.10	$0.25
Selaginoides. Foliage fine serrated	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved ½ trade pkt., 25c.	$0.40	$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½ ft.	$0.25	$2.00
Splendens (Scarlet Sage)	.25	1.50
Splendens, Ball of Fire. Very dwarf and early	.25	3.50
Splendens aucubaefolia (Silver-spot)	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf	.25	
Splendens gigantea	.25	
Splendens pendula. Drooping spikes	.25	2.00
Splendens, Zurich..¼ oz. $1.75	.25	6.00

STOCKS.

Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose	$0.25
Canary Yellow	.25
Crimson	.25
Dark Blood Red	.25
Dark Violet Blue	.25
Dark Purple	.25
Flesh Color	.25
Light Blue	.25
Scarlet	.25
Snow White	.25
Fine Mixed	.25

Boddington's Quality Cut-and-Come Again.

These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White	$0.25
Apple Blossom. Light pink	.25
Peach Blossom. Soft pink	.25
Chamois	.25
Bridesmaid. Rose	.25
Canary. Yellow	.25
Flamingo. Blood red	.25
Blue Jay. Light blue	.25
Violet. Dark blue	.25
Carminea. Crimson	.25

GIANT PERFECTION STOCKS.

White.

Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c, ¼ oz. $1.25, ½ oz. $2.00, oz. $3.75.

QUALITY VERBENAS.

	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed	$0.25	$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye	.25	1.75
Boddington's Mammoth Blue	.25	1.75
Boddington's Mammoth Pink	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort	.25	1.75
Boddington's White (Candidissima). Pure white	.25	1.75
Boddington's Striped. Many colors	.25	1.75
Lemon (Aloysia citriodera)	.25	1.50

VINCA.

	Trade pkt.	Oz.
Alba. White	$0.15	$0.75
Rosea. Rose	.15	.75
Rosea alba. Rose and white	.15	.75
Mixed	.10	.40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

ARTHUR T. BODDINGTON

SEEDSMAN **342 West 14th St., NEW YORK CITY**

NEW ROSES

KILLARNEY BRILLIANT This rose will replace Killarney as surely as Killarney replaced Bridesmaid. We ordered 30,000 grafting eyes. We have increased this order to 40,000, To give early delivery we must have the order early. Others are ordering. Get your order in and get delivery when you want it. Grafted plants only at the introducers' price.

HADLEY Deep rich crimson in color with an unequalled fragrance. An average producer of bloom that bring the top price of the market. A rose that will make money and a rose you need. If you want better roses and increased business, plant Hadley. It is a variety that a real rose grower will delight in growing. Our trade list for prices.

A. N. PIERSON, INC. CROMWELL CONN.

LOECHNER & CO.

JAPANESE LILIES
LILY OF THE VALLEY PIPS
PALMS, AZALEAS, &c.

11 Warren St., New York, N. Y.

Write for quotations

TABLE FERNS

Fine plants from 2¼ in. pots, best assortment, $3.50 per 100; $30.00 per 1000. 500 or more at 1000 rates.

CASH WITH ORDER.

Frank Oechslin, 4911 Quincy St. CHICAGO

Mention HORTICULTURE when writing

Boston Ferns

Small Ferns for Dishes

GERANIUMS, AZALEAS, ETC.

JOHN McKENZIE

NORTH CAMBRIDGE, MASS.

Our Motto: The BEST the Market Affords

CHAS. SCHWAKE & CO., Inc.

Horticultural Importers and Exporters

90-92 West Broadway, New York

NOW READY—

Hohmann's Lily of the Valley
sample cases per 1000.....$16.00

Lilium Giganteums
7/9-inch, 300 per case..... 18.00
8/10-inch, 225 " " 20.00

LIST OF ADVERTISERS

Page
Advance Co.....926
Albany Cut Flower Ex....918
Allen, J. K.....918
Am. Importing Co. 915
Anderson, S. A..915
Aphine Mfg. Co.925
Aschmann, G....906
Ayres Co., S. Bryson 911
Badgley, Reidel & Meyer.....918
Balsley, Harry..926
Barrows & Son..896
Bayersdorfer, H. & Co.....915
Bay State Nurseries 908
Bird Steel-frame Greenhouse Co.926
Bloomingdale's, 913
Bobbink & Atkins 908
Boddington, A.T.894
Bolgiano & Son, J. 911
Boston Florist Letter Co.....916
Breck, J. & Sons.911
Breck - Robinson Nurseries 908
Breitmeyer's, J. Sons 913
Brookland Gardens 909
Bryan, Alonzo J.909
Burnett Bros....911
Burpee, W. A. & Co. 910
California Florist 914
California Seed Growers' Asso.911
Chicago Carnation Co.....916
Cook, John.....908
Cooke, Geo. H...915
Champion, J. N. & Co.....915
Childs, John Lewis 906
Consumers Fertilizer Co.....925
Clarke's, D.Sons.913
Cottage Gardens Co. 907
Cowee, W. J....916
Craig, Robt. Co.909
Dards 913
Davenport, A. M.896
Dawson, H. S...896
Detroit Flower Pot Co.....926
Dickinson, A....910
Dorner & Sons Co. 896
Dreer, H. A.909-926
Dunlop, John H.914
Dysart, R. J....916
Eastern Nurseries 896
Edwards Folding Box Co.....916
Elliott's, W.Sons.910
Eppstein, Julius.914
Ernest, W. H...926
Esler, J. G.....927
Eyres 913
Farquhar, R. & J. & Co.....908
Felix & Dykhuis.910
Felthousen, J. E.906
Florists' Telegraph Delivery Asso. 912
Ford, M. C.....918
Ford, W. P.....918
Forrest, Frank H.914
Fottler, Fiske, Rawson Co....911
Freeman Orchid Co. 907
Framingham Nurseries 918
Froment, H. E..918
Galvin, Thos. F. 914-915
Gasser, J. M. Co.914
German Kali Works 924
Goodsell, P. H...908
Grey, T. J. Co..911
Gude Bros. Co..914
Hail Association.927
Hall & Robinson.914
Hart, Geo. B.915-919
Heacock, Jos....907
Heinecken, Otto.911
Henderson, A...906
Hess & Swoboda.913
Hews, A. H. & Co. 926
Hill, E. G. Co..916
Hitchings & Co.927
Holland Nurseries 819
Hilfinger Bros...926
Holm & Olson..913
Hudson Carbon Co. 925
Jager, C. J. Co.924
Johnson, J. Oliver 911
Jones, Robert Ross 927
Joy Floral Co...914
Kasting, W. F. Co. 919
Kervan Co.....918
Keller, J. B.Sons.913
Keller, J. M. Co.896
King Construction Co.....926
Komada Bros...915
Kramer, F. H...914
Kroeschell Bros.927
Kuebler, W. H..918
Lager & Hurrell.907
Lemon Oil Co...924
Leonard Seed Co.911
Leuthy, A. & Co.896
Loechner & Co..895
MacMulkin, E...914
May & Co., L. L.915
McCarthy, N. F. Co. 916
McConnell, Alex.913
McHutchison & Co. 896
McKenna & Son, P. 914
McKenzie, John.895
McManus, Jas...918
Metropolitan Material Co.....927
Michell's, Seed House 910
Michigan Cut Flower Ex....916
Millang, Chas...918
Millang, Frank..918
Montreal Floral Exchange 918
Moore, Hentz & Nash 918
Murray, Samuel.913
National Nurseryman 908
Nicotine Mfg. Co.925
Niessen, Leo. Co.916
N. Y. Stable Manure Co.....925
Oechslin, Ernest.907
Oechslin, Frank.895
Ouwerkerk, P...819
Palmer, W. J. & Son 915
Park Floral Co..913
Parshelsky Bros.927
Patten & Co.....906
Pennock - Meehan Co. 917
Penn the Florist.914
Pierson, A. N...895
Pierson, F. R.Co.915
Pierson U - Bar Co. 928
Plant Food Co., 20th Century .925
Poehlmann Bros. Co. 916
Pollworth, C. C.913
Pulverized Manure Co.....925
Quaker City Machine Co.....927
Randall's Flower Shop 915
Reed & Keller..918
Reid, Edw.....919
Reinberg, Peter.916
Reuter's 915
Rice, M. Co.....914
Robinson Co., H. M. 918
Roehrs, J. Co...907
Roland, Thomas.909
Rolker, A. & Sons 909-926
Rosery, The.....913
Sander & Son...907
Scott, John.....896
Scott, Robt. & Son 819
Schling, Max....914
Schultheis, A....909
Schwake, Chas. & Co.....895
Sheridan, W. F.918
Sharp, Partridge & Co.....927
Shepards Garden Carnation Co..906
Siebrecht, Geo. C. 918
Siggers & Siggers 926
Skidelsky, S. S. & Co.....907
Slinn, B. S.....919
Smith, P. J.....918
Smith & Co., L. D. 908
Smith, W.& T.Co.908
Smyth, Wm. J..913
Sprague, J. H..907
Stearns, A. T. Lumber Co....927
Stoothoff, H. A. Co. 924
Stumpp, Geo. M.913
Totty, Chas. H..905
Thorburn, J. M. & Co.....911
Traendly & Schenck 918
United Refrigerating & Ice Machine Co.....915
Valentine, J. A..913
Vincent, R., Jr., & Sons Co.....906
Van Assche, F..927
Wants, For Sale.923
Ward, R. M. & Co. 896
Weber, F. C....914
Welch Bros.....916
Whittier & Co., W. B. 908
Wilson, J. J. Seed Co.....911
Wood Bros. 896
Woodrow & Marketos 919
Yokohama Nurseries 911
Young, A. L....919
Young, John....918
Young & Nugent.913
Zangen, O. V...911
Zinn, J. A.....914
Zvolanek, Ant. C.911

For BUYERS' DIRECTORY AND READY REFERENCE GUIDE, See Pages 920, 921, 922, 923

HORSESHOE BRAND GIGANTEUMS

Absolutely first class bulbs, from the best fields in Japan, well packed and fully matured. Nothing better in lily bulbs anywhere.

FULL SIZE CASES

Size 6-8 inches, $18.00 per case of 400 **Size 8-10 inches, $25.00 per case of 250**
Size 7-9 inches, 20.00 per case of 300 **Size 9-10 inches, 22.00 per case of 200**

BABY GRAND CASES

Size 7-9 inches, $8.50 per case of 100 **Size 8-10 inches, $11.00 per case of 100**

PRICES INCLUDE STORAGE CHARGES up to October, 1914. Immediate shipments at $2.00 for full cases and $1.00 for Baby cases less per case. Terms 60 days AFTER SHIPMENT, or 5% for cash with order. Order now for deliveries any time up to October, 1914. Write us.

RALPH M. WARD & CO.

THE LILY HOUSE

71 MURRAY STREET, - - - NEW YORK CITY

In Writing Advertisers Kindly Mention HORTICULTURE.

ROSES

GRAFTED and OWN ROOTS

Killarney Queen, Double White Killarney, Lady Hillingdon, Double Pink Killarney, Maryland, White Killarney, Killarney, Richmond, Kaiserin, Perle, Sunset, Sunrise, Bride, Bridesmaid, Wootton, Clothilde Soupert, etc.

Fine Stock from 3-inch pots. Write for Catalogue and Prices.

Wood Brothers
FISHKILL, N. Y.

Azaleas, Ferns, Palms

FIRST QUALITY ALL SIZES

SPECIMEN BOSTON FERNS, CIBOTIUMS, ETC. DISH FERNS.
All Varieties. Any Quantity.

All Sturdy, Cool Grown Stock Write for Prices

A. M. Davenport Watertown, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

RAFFIA

Natural—Four Standard Grades.

Colored—Twenty Standard Colors.

We are headquarters—always carry several hundred bales in stock. Can ship any grade in any quantity at a moment's notice.

Bale (225 lbs.) lots or less.

Write for prices and terms.

McHUTCHISON & CO. THE IMPORT HOUSE
17 Murray St., NEW YORK

The New Sargent Rose

Stock Limited, $1.50 each.
Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.
Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.
HENRY S. DAWSON, Manager.

Palms, Ferns, Decorative and Foliage Plants
Orders taken now for IMPORTED AZALEAS

On hand a splendid stock of Ferns in leading sorts. Also Cocos, Asparagus for Jardinieres.

A. LEUTHY & CO.
Perkins Street Nurseries Roslindale.—Boston, Mass

PALMS, FERNS AND DECORATIVE PLANTS

JOHN SCOTT
Rutland Road and E. 45th St
Tel. 2800 Bedford BROOKLYN N Y

BOSTON FERNS 2½ in. $3.00 per 100, $30 1000
ROOSEVELT, 2 1-2 in; $5 per 100, $40 per 1000.
WHITMANI COMPACTA 2 1-2 in. $5 per 100, $40 per 1000.
250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

J. M. Keller Co., Inc.

GROWERS
DECORATIVE PLANTS
OF HIGH QUALITY
Fifth Ave. and 65th Street, Brooklyn and Whitestone, L. I., New York

When Writing to Advertisers Please Mention Horticulture

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Sweet Peas

These should now be well advanced in growth, and the stems improving in length, but not until early spring will they attain that strength which we like to see. If the plants are covered with buds and in good health, with small fibrous roots coming to the surface a light mulch will do them good. Feeding must be given with care. The plants are unable to assimilate anything like the amount of food now that they can two months hence. If the stems show any signs of becoming shorter a watering of liquid cow or sheep manure once in two weeks will help them. A top-dressing of well decayed cow or pulverized sheep manure is better if lightly forked into the ground before watering. It is better to avoid all chemicals at this season, for unless applied with great caution, they will do far more harm than good. Tying must be regularly attended to, for once any stems become bent the flowers are unsalable. The temperature with sun heat can run up to 65 or 68 degrees, but on cloudy days a maximum of 55 to 58 degrees is sufficient and at night about 50 degrees.

Easter Lilies

Now that the holiday trade leaves quite some bench space it will be well to bring in some of the lilies intended for the Easter trade. Lilies should be given immediate attention. Harrisii or Formosa lilies, if they are just coming through the ground now will be all right as Easter does not come this year until April 12th. There isn't any reason for using a strong heat, for the present, at least, for any lilies intended for Easter; 55 degrees will do nicely; a higher temperature will only, especially in the dark days, tend to produce a soft growth. In about three weeks it will be all right to give them 60 degrees. In the case of multiflorums and giganteums, if the growths are three to four inches high you are all right. These lilies can be given a house that stands about 60 degrees at night and in about three weeks they can have 65 degrees.

Mignonette

Mignonette likes a cool, bracing atmosphere. At all times when prudence offers no objections, air should be freely admitted—not rushing or chilling drafts, but merely fresh air to counteract stagnancy, and excess in atmospheric humidity and temperature. Bench-grown mignonette will hardly be at its best until the shortest days and gloomiest stretch of winter have been passed. It then shows how good culture is capable of giving a lift to nicely established, sturdy growth. A rather low temperature at present from 42 degrees to 45 degrees is in accord with good culture as regards high-grade mignonette for cutting. Give attention to tying and disbud strong shoots, cut away twiggy straggling ones, water sparingly and do not fumigate unless actually needed. Another sowing of mignonette for pot and bench culture can now be made to be grown into good stock for the spring trade.

Orchids

We are now coming into our shortest days, when careful watering counts. To do this work right the grower will have to go over his plants every day and make it a rule to water only as they may need it. All such orchids as cattleyas, cœlogynes, miltonias, laelias, odontoglossums, etc., love fresh air, so make it a point to give some ventilation every day even if it is only for an hour as it will help to keep the air sweet. Those of the East Indian family will stand more coddling and thrive, but that does not mean that they do not want ventilation, too. This should be given, on all bright days. Do not keep the houses too damp during dull and murky weather, but during bright weather you can damp down two or three times a day. Use any spare time now in cleaning and sponging the orchids.

Propagation

Florists who raise any and all kinds of plants for an ever-open market carry on propagation at all seasons with hardly any let-up at any time. The benches on which propagating is done should be exposed to the full light, but be so arranged as to afford ready means for expeditious placing and removal of shading. Give plenty of minute openings to insure perfect drainage. On these a layer of coarsely broken up soil—usually the rough leavings from the siftings of potting soil, is spread about half an inch thick and on this goes the sand.

Starting Bulbous Stock

We are now getting more room so we can keep up a steady succession of all kinds of bulbous stock from this out. Bring flats of narcissi, tulips, hyacinths, etc., into heat every week. The tulips should be kept in a dark place so their stems will draw up. All those intended for Easter should be held in a cold pit or cellar that can be kept as near freezing as possible. When kept at 45 and even 40 degrees they will come along far too early.

Mr. Farrell's next notes will be on the following: Aspargus plumosus and Sprengeri; Geraniums in Winter; Sowing Gloxinias; Seed Sowing; Tuberous Begonias; Start Making Flats.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

FRUIT AND VEGETABLES UNDER GLASS

CONDUCTED BY

George H. Penson

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Penson. Such communications should invariably be addressed to the office of HORTICULTURE.

The Pot-Tree House

The buds will be swelling on the trees that have been given a few weeks' treatment in this house. Advance the temperature accordingly so that by the time they are in flower 50 to 55 degrees will be recorded through the night with the corresponding advance through the day. As soon as the buds show signs of expanding the temperature can be allowed to run up several degrees higher with sun heat—75 will not be too hot providing a good crack of air is on at the time. This is only meant to apply for the few days that it takes for the buds to show color after the first signs of growth are detected. Do not let the atmosphere get anywhere near dry; fine mist-like sprays will always help to promote growth. Look over the pots daily, watering them as they need it; there are sure to be some to dry out, now that the roots are in action.

Peach Buds Dropping

Some gardeners are shy on root-pruning in the fall because of the ill effect on the flower buds—many, they will claim, are apt to fall after it. This is not due to the root pruning—that is if it was properly carried out. With proper care any number of peach or nectarine trees can be root-pruned just as severely as any other tree or, in other words, as hard as is advisable and never drop a bud. The chief factor in causing buds to drop is dryness at the roots either at the time of root-pruning or since. Not only does this refer to trees that have been root-pruned but also to trees that are growing in borders that dry out easily. We know there are some borders that never would dry out from the fall until plenty of growth is on the trees again in the following spring, a fact that cannot nullify the existence of the first mentioned. See that all borders are kept moist through the dormant season, especially those trees that were root-pruned. An additional preventive can also be used in the form of an occasional syringing. Three or four times a week the trees can be syringed over with cold water which will help to keep the buds soft. Let the water be quite cool and then the trees will feel the difference when they come to be started and warm water used.

Knots

While having the peach tree in mind I will record what occurred to me a few days prior to writing the article on tying peach trees in the issue of December 13th which was overlooked at the time of writing. It is the matter of knots. Of course there are knots and knots—some that are easily tied and likewise untied, others that require the latter part of the last sentence reversed, big knots and little knots, some that you tie with your tongue which cannot be undone with the teeth; these, and many others can also be recorded but the one I had in mind was what we always knew as a "granny knot." Perhaps you never heard of it but you must know it all the same. It is one that comes undone before the job is through, or in the case of tying up boxes, etc., it needs five or six body guards to stay around all the time or it will give out. What looks worse than a bunch of knots where one should do the work? In tying peach trees of course a chance will be taken on almost any kind of knot. Some are sure to stay but why not get a reliable one into your fingers, one that will "stick around." Seldom will two men use exactly the same way of making ties and it is difficult to alter one's ways when once established but get the habit early of making one that will stick and also be quickly made.

Fig Houses

Fig houses should be put into shape without delay. The pruning of the trees will be done on exactly the same lines as the peach or nectarine tree. There will be no real flower buds to be considered but on close examination it will be found that there are many very tiny fruits waiting to develop on last year's wood, making it advisable to retain all of this there is room for. The size of the foliage must be considered as it does not pay to crowd it; a freer hand with the knife can be used on the fig tree than any other. Always leave room for and encourage young wood from the base as this is the future of the tree. Let the house have the usual cleaning, top dressing, etc., prior to tying the trees back on the trellis. Should the surface soil be full of roots do not remove it by force at the expense of breaking the roots; rather remove any not having roots into it and then add a top-dressing to level the border off. Figs make surface roots very easily.

King George Melon

In August 23rd issue I made reference to this new melon stating what it had done for us here up to date. As an experiment we tried three plants in the house that was sown 1st of September for Xmas crop which have turned out much better than we anticipated. It grew much freer than we expected it to, making growth equal to that of the summer; the weakening sun power evidently suited it. We are led to believe a light shading on the glass will be a benefit to it through the summer months. It is certainly a fine fruit when you get it right.

Winter Packing

The packing of fruit through the winter time will take a little more care than at other times of the year. See that additional linings are put in to keep out the frost. Old newspapers will answer the purpose.

Happy New Year

A few more days and Father Time will have ushered 1913 into the past, gone but not forgotten. Those who at its coming were superstitious enough to fear the '13 hoodoo have had little cause to complain, for from all indications 1913 has been a prosperous year. Now as 1914 draws near may it bring Happiness and Prosperity to HORTICULTURE and all its readers.

CARNATION TROUBLES

Carnation and Antirrhinum Disease

A Morristown, N. J., grower sends the following inquiry:

Mr. Farrell.

Dear Sir:

Would you kindly advise a cure, if any, for blight on carnations and snapdragons? I have reason to believe that it originated in a celery frame while in their summer quarters and where the celery last year was wintered. I have tried Bordeaux Mixture and other reputed remedies, but it fails to check it any. First the tips of the leaves and then the stems dry up. Any suggestion will be gladly accepted and appreciated.

In reply I shall take up the carnations first. From the scanty facts given I would say that his carnations are suffering from leaf spot or blight (Septoria Dianthi). It affects both leaves and stems to such an extent that the sap is cut off from the branches making them dry up and finally die. I would first of all go through the benches and cut off all diseased shoots and burn them. Pay attention to the watering at the roots and try to keep them in an even state of moisture, but doing any watering in the morning so they will have a chance to dry off before nightfall. Once a week spray with ammoniacal copper carbonate solution. This can be made as follows: Copper carbonate, one ounce, ammonia, one pint; mix together and when dissolved this is enough for ten gallons of water. I would suggest a very steady night temperature of from 52 to 54 degrees, about 62 degrees on dark days, and 65 to 70 degrees on sunny days. Give ventilation whenever possible. Keep the surface of the soil stirred frequently. In short, give careful culture, which only with spraying will help to eradicate any fungous disease and do not propagate from any of this diseased plants. Antirrhinums are subject to leaf spot and the same treatment will do for them. Do not syringe for some time, so the foliage will be left dry, but spray once a week with the ammoniacal copper solution. The causes of these fungous diseases are often exceedingly complicated and difficult to unravel, but it is known that too little moisture or too much excessive heat or cold, too little plant food and unfavorable soil, all go to make trouble.

John J. M. Farrell

Weak Stems

Editor HORTICULTURE:

Will you please let me have some information that will help me to correct a bad case of weak stemmed carnations. All my carnations are exceedingly weak in the stem although flowers are of fair size; 2½ to 3 inches, but very light at the calyx. The houses average 50° to 55° at night, with a chink of air on; the day temperature runs from 60° to 75° with everything open. As to feeding; I have treated one bench with Clay's fertilizer, one bench with blood and bone and muriate of potash (3 part to 1 part), one bench has had ichthemic guano, and one has been given sheep manure; this last is the weakest stemmed batch As to the others I can detect little difference. Once, so far, everything had a good dressing of soot to kill cutworms.

I have generally a few weak stems with the first cutting, but the trouble has not been so continuous before and I hope you can tell me where I have succeeded in "slipping up."

To correct weakness in stems already formed is impossible but your detailed explanation of the treatment of your plants makes it easy to locate the reason for the weakness of which you complain. It is simply a case of overfeeding, aggravated by a too high temperature at times at night and probably also in the daytime. Bloodmeal, guano and sheep manure are very rich stuff and will hardly do for carnations at any time unless the user is well acquainted with their action and it generally takes a "slip up" before a man really begins to notice that he had better leave these stimulants alone, at least until spring. Even then a small dose at a time will go a long way.

I take it from your letter that your plants are yet in good physical condition and only affected with weak stems. If so, they will pull through all right, if you keep them properly watered and aired. The night temperature should never go over 50 nor under 48. As for fertilizer, I have an idea that there is enough of it in your benches to raise a good crop of cauliflower after your carnations are pulled out in the summer.

If after planting your next year's carnations, you wish some practical information as to feeding your plants, I shall be glad to help you out. I am in a position to do so as I have in my days paid dearly for finding out that a man had better not fool around too much with highstrung fertilizers.

Carnation Rust

HORTICULTURE,

Dear Sirs:—Will you kindly let me know through the columns of your paper the cause of rust on carnations? I used tankage in the field last summer and mixed it with the soil in the benches and my plants are full of rust. Would the use of tankage have anything to do with it?

J. M., New York.

Rust is produced by the spores of a fungus. These spores are present wherever carnations have been or are growing and will attack the plants, whenever favorable conditions for their growth are present. The spores will have an easy time of it, if the plants are in a weak condition, either from constitutional weakness, checks of any kind, or if the atmosphere in the houses is kept too moist and the air stagnant.

The above will readily suggest the needed treatment. Some kinds of carnations—like most scarlets, crimsons and yellows—are seldom without rust and will show a very decided case of it upon the least provocation. As far as your correspondent's case is concerned, I do not see that tankage has anything to do with the rust on his plants, unless enough tankage had been used to induce a soft growth and subsequent treatment of the plants had been favoring the development of the spores. The plants will come out of the disease all right if kept airy and not syringed more than is needed to keep red spider in check. I have in these last years not found any trouble, on account of rust; simply I think, because I keep my plants free from moisture and always have air circulating, whenever possible.

Get your plants in good healthy growth and keep them so and rust will not show much. If the lower leaves are much affected, I should advise to pull them off, and burn; this will greatly reduce the chance for further infection. Any sort of spraying with germicides is a waste of time.

Gustav Thommen

Phalaenopsis Aphrodite

The frontispiece of this week's issue of HORTICULTURE represents a nice group of Phalænopsis Aphrodite, a native of the Island of Luzon, Philippines, where they are found growing on low trees, usually along the edge of small streams. This would indicate a warm, moist, partly shady situation and these conditions the cultivator of these useful orchids must try to imitate, avoiding extremes in either direction. I know they have a bad reputation in regard to their behavior under cultivation, and to a certain degree not without reason. But there are a good many other orchids more difficult to keep alive and growing for a number of years than Phalænopsis. The plants shown in the picture have been here nine years and they have never failed to make a good display every winter from November to March with a few occasional sprays through the whole season.

New imported plants, once established, grow and flower with the greatest vigor for several years and, if given proper attention, indefinitely. Once in a while one will go off (and that in a hurry), but this is usually the grower's fault and not the fault of the plant. The house in which the plants are growing here is an old fashioned curvilinear structure, 25 x 20 feet, covered with ground glass. The Phalænopses are all suspended about a foot from the glass on wires stretched the whole length of the house; eight rows of the larger plants being suspended over the center table which is occupied with anthuriums, ferns and other shade and moisture loving plants; then there are four rows each over the two side benches, these being again used for other plants, such as ferns, begonias, cypripediums, etc. By growing these plants in the same house beneath the Phalaenopsis, assures at all times a nice moist atmosphere. The house is heated by hot water and plenty of pipes run under both side-benches as well as the center table; this allows at all times a gentle heat without having to get the pipes overheated and thereby avoiding that dry, parched atmosphere which is so conducive to breeding thrips, red spider and other pests. The ground glass, which as a rule is not to be recommended for orchid growing, suits the Phalænopsis to a T as they seem to enjoy a little shade even in winter. In summer cloth shades are used as soon as the sun warms up the plants, rolling them up after the sun leaves the glass. The temperature in winter is kept as near 65 degrees as possible at night with a rise of 10 degrees to 15 degrees during the day. The house is damped down once a day, usually in the morning, when the plants on benches are watered and syringed at the same time. In cloudy weather the floors only are damped down good.

As a compost one may use either moss, osmunda fibre or both together, but if the moss cannot be kept alive and growing, then fibre alone is the best thing to use, for dead moss will soon spell dead roots and the consequences thereof. The plants must be kept free of insects at all times by frequent fumigating with some good insecticide and an occasional sponging if necessary. Watering must be done with great care at all times aid especially during the short days of winter. Never water a plant unless you are sure it is dry, for although Phalaenopses have no pseudobulbs in which to store up moisture, they can stand a good drying out, especially in winter without suffering any harm. Ventilate on all favorable occasions, preferably from the bottom if the house is provided with bottom ventilators.

M. J. Pope

Naugatuck, Conn.

Sports and Reversion

Along down through the ages a great deal has been accomplished for us by accident. It is safe to say that most of all the good that has come to cultivators in the way of new varieties, has happened. By way of example, it took seven years for the "Student" parsnip to be developed from the wild type of the wayside. This was accomplished by a member of the faculty and students of the only Agricultural College then existent, and the Student parsnip is still recognized. Gardeners often scold at the signs of reversion to type visible when seeds are sown and the results are poor, forgetting that all the good we have had is due to the uncertainty of things seemingly fixed. We all know of plants that have been seemingly as immutable as the days, until someone discerns a sign of variation, and this is the opportunity of the cultivator who, being wise to the situation, takes advantage and finally proves up with new forms of value for decoration of gardens or food for the race.

Some years since, the writer was speaking to a gathering of which one was a preacher, the argument being that the tendency of all things was downward, hence the need of uplift. The preacher turned the tables very cleverly by saying that we expected too much from a type recognized as such, but obviously artificial.

A lady once asked the meaning of the word "sport" as used by gardeners and, at first thought, there was hesitation. Freak would be the word, but does not contain the possibilities inherent. We owe so much to the vagaries of nature either in the dwarfing of things or otherwise, it really seems we need another term or definition. The change of color in the flowers amounting sometimes to albinism is an illustration, but whatever the sport, break or freak is, the unseen influences at work would make it appear to be an accident, and these are many to those who have eyes to see.

Rogues therefore are to be expected and not scolded; we are dealing with a product and the more valuable it is, the more prone it is to revert back to a former generation, perhaps even to the type plant.

A colored gentleman once remarked that the white man was very uncertain. If we paraphrase this and say that plants are sensitive, have in fact senses, the changes we see, either of progression or retrogression, are easily understood. A modicum of adversity will surely bring maturity quickly, and a plentitude of food, moisture, and season ahead will tend to make plants forget that there ever was a season of rest or adversity. It is well known that, in India, vegetable seeds have to be imported annually. There is no difficulty in getting seeds there from the various vegetables, but all prove to be rogues when grown the first generation. In Alaska, excellent crops can be grown of temperate kinds in a few weeks, showing that there is a great adaptability—sense in a way—to plants of economic value.

All of us have seen weeds that came into being late

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Propagating Bench

About this time of the year we begin to think of the propagating bench in earnest, as the time will be here when the stock for the coming year must be rooted. Where the benches are of wood, examine them all very carefully and see that all the boards are sound and will stand the hard usage without breaking down anywhere. There is nothing more annoying than to have a board break about the time the cuttings are beginning to callous nicely. Where the benches are of tile or slate there will be very little to repair, but make sure that there are no broken tiles. We do not like the wooden bench as well as the tile or slate, as the former is a very poor conductor of heat. The latter is much better, and we have little trouble to maintain the necessary temperature in the sand. Whichever it may be, see that all the bottoms and sides are in good condition, and then whitewash the benches with hot lime to which a little copper sulphate has been added. The sulphate will do away with a good many spores of various fungus, and will help the lime in its cleaning. Then use a little sphagnum moss to fill any large openings, so that the sand will not wash through. Make sure, however, that there will be no danger of the surplus water not draining, as perfect drainage is very necessary to successfully root rose cuttings. Do not use too much sand; that is, do not have it too deep in the bench. Four inches of sand will be all that is necessary, for the less sand the easier it is to control the bench.

Sand

This should be clean fresh sand, not too coarse, nor too fine. A medium run of sand will be very good. See that it is very sharp. Avoid using river sand if it is possible. There are many thousands of roses rooted in just such sand, but where it can be had we prefer the other. Do not use sand that had been used before, or been lying around collecting dirt. If it has been stored in good clean quarters it will be safe. Try the sand for dirt, by taking a little of it and rubbing it between the hands. If the hands show a thick scum of dirt, then the sand is not clean. It can be used, however, by giving it several heavy waterings as soon as it is placed in the benches. Needless to say all the sand should be well screened and free from gravel or other coarse material.

Shading the House

Where the houses are exposed to the sun, it will be necessary to shade them quite heavily, for sunlight is not required in the process of rooting plants. It is well to shade the house before any cuttings are put in for if it does not work well the fault can always be corrected before there are any cuttings in the house that will be damaged. Lime is generally used for the shading, but it is not the best, for it injures the paint and is very difficult to remove after it is not wanted. A much better plan is to use a little whiting and kerosene into which may be mixed a little dryer, as the oil alone will not dry readily. Gasoline may be used, but it is dangerous and expensive, as compared to the kerosene.

Bottom Heat

Make sure that there will be enough bottom heat to maintain a temperature of 64 degrees F. in the sand. To do this it will be necessary to place cloth or other material along the side of the bench, and let it hang down to the walk to keep the heat under the bench. The temperature above the cuttings or in the whole house must be kept down to 52-54. The object of the higher temperature in the sand is to encourage the roots, and the low is to keep the tops or the top buds from growing. Once the cuttings start to grow they will never root well. It is not until the cuttings are rooted that the thermometer can be allowed to run up to 64 or so. This will help soften the buds, and the cuttings will start much quicker after they are potted, than if the low temperature prevailed all the while that they are in sand.

Firming the Sand

Before any wood is cut for the cuttings, the house should be running just as if the cuttings were in, for about two days. If there is any defect anywhere it will surely show up in this time. Among other things see that the sand is well firmed by being pounded down gently but firmly with a brick. This can be followed by a pounding with a flat piece of wood nearly as wide as the bench and having handles so that it will be very easy to handle it. This same piece comes in real handy when the cuttings are being put in as it can be used to mark out the row, and again to pound the sand around the cuttings when the row is full. Of course the sand must be wet when the firming starts, as it would be useless to pound the sand dry.

---

in the year, grow to an inch or two and then proceed to perpetuate their kind, making perfectly good seeds. To go to the other extreme, orchids that are waning and their vigor almost exhausted will make good parents in that good seeds will be produced, even though it may be the last dying effort of the plant. A thought for the New Year is that the season of seed lists is at hand. There will be many novelties that will tempt us, though as the years go on these seem fewer and it is a good sign, in that greater care is exercised today than ever in sending out a new thing. The advice is to try all that appear to be good in a tentative way, trusting to older and well tried kinds to carry one over, remembering also that when a novelty ceases to be such and is not controlled by anyone, it soon loses value to the average grower even to the extent of losing its identity.

E. O. Orpet

HORTICULTURE

VOL. XVIII DECEMBER 27, 1913 NO 26

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, $1.00; To Foreign Countries, $2.00; To Canada, $1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... $1.00

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Phalaenopsis Aphrodite.

NOTES ON CULTURE OF FLORISTS' STOCK—Care of Sweet Peas—Easter Lilies—Mignonette—Orchids—Propagation—Starting Bulbous Stock—*John J. M. Farrell* 897

FRUIT AND VEGETABLES UNDER GLASS—The Pot-Tree House—Peach Buds Dropping—Knots—Fig Houses—King George Melons—Winter Packing—Happy New Year—*George H. Penson*..... 898

CARNATION TROUBLES—Carnation and Antirrhinum Disease—*John J. M. Farrell*—Weak Stems—Carnation Rust—*Gustave Thommen*..... 899

PHALAENOPSIS APHRODITE—*M. J. Pope*..... 900

SPORTS AND REVERSION—*E. O. Orpet*..... 900

ROSE GROWING UNDER GLASS—The Propagating Bench—Sand—Shading the Houses—Bottom Heat—Firming the Sand—*Arthur C. Ruzicka*..... 901

CHRYSANTHEMUM SHOW AT THE UNIVERSITY OF MICHIGAN—*Mrs. Francis King*—Illustrated.... 903

BRITISH HORTICULTURE—*W. H. Adsett*..... 903

CLUBS AND SOCIETIES—Lancaster County Florists' Club—American Gladiolus Society—Society of American Florists—American Sweet Pea Society—National Association of Gardeners..... 904

CLUB AND SOCIETY NOTES..... 905

OBITUARY—Timothy O'Connor—Harry Francis—Richard Frohberg—J. C. Williams..... 905

SEED TRADE—New Zealand Garden Peas..... 910

OF INTEREST TO RETAIL FLORISTS:

New Flower Stores—Steamer Departures..... 913

Flowers by Telegraph..... 914

FLOWER MARKET REPORTS:

Boston, Buffalo, Chicago, Cincinnati..... 917

New York, Philadelphia, St. Louis..... 919

WEED EXTERMINATION—*Dr. G. E. Stone*..... 924

MISCELLANEOUS:

Warning 903

Regulations for Staging Orchids..... 905

Catalogues Received 906

The "Knocker" 906

Business Troubles 913

New Corporations 913

News Notes 913

Personal 914

Chicago Notes—Philadelphia Notes..... 915

A Silver Wedding..... 919

Greenhouses Building or Contemplated..... 926

Sunday gardening

Representative John E. Beck of Chelsea has filed a petition and bill in the Massachusetts Legislature that it shall be lawful for any man who maintains a garden appurtenant to his house for the purpose of raising flowers, fruit, or vegetables for the use of his household and not for sale, to work in the same on Sunday. That is good so far as it goes. So long as a man does nothing in his gardening operations to disturb the Sunday quiet and annoy the neighborhood we see no reason why he may not be permitted legally to care for the welfare of his plants to the same extent that he is free to attend to the wants of his domestic animals, and this liberty should not be limited to the man who does not sell his product. The crops of the latter require the same attention and care as those of his amateur neighbor and the proposed distinction strikes us as most unjust.

Happy New Year

With this issue HORTICULTURE closes its eighteenth volume and its last word for 1913 is here and now said. Before our next number appears one more New Year's Day will have passed and friends everywhere will have exchanged the compliments of the season in kindly reciprocal wishes for health, happiness and prosperity during the year to come. So it is fitting that we, too, should at this time join in the general felicitation and extend to one and all our sincere good wishes that success may crown their labors, that peace and plenty and all the comforts of mind and body may be theirs in over-running measure.

"Into each life some rain must fall,
Some days must be dark and dreary."

But remembrance and reflection must convince us all that the year entered upon twelve months ago, while it may not have brought to us all we hoped for and has contributed its share of discouragements and reverses, has not been unkind. Nothing has been that might not have been worse and so it will be all through life if we only choose to see it in that light. We should never forget that he is most truly happy who attains his greatest happiness through making others happy and this principle may well be made the corner stone of all our New Year resolutions for 1914.

A gladiolus problem

One of the best known gladiolus specialists in this country has told us that his firm had now decided to discontinue the growing of standard varieties in large quantities, because of the serious slashing of prices by the Hollanders. He asserts that "there is more money in raising potatoes now than such gladiolus varieties as America, Mrs. Francis King, etc." So far as our observation goes the stocks sent out by the Hollanders are much inferior to the American bulbs. Of course, the people who are importing them will find this out by experience and after a time we may hope to see those things adjust themselves, but in the meantime it looks as if a great many American growers may have to quit the business. We believe some effort was made by the American gladiolus growers to induce the tariff farmers to give them some protection but they did not accomplish anything. As to the imported bulbs the losses during transit amount to considerable, some varieties being worse than others in this respect. Then there are some that appear all right when received but afterwards either give up the ghost entirely or fail to flower. If the bulbs have sweated any in transit they are practically spoiled. So, we would advise that if you must buy Holland stock it will be wise to insist on a guarantee of arrival in first-class condition. But the best course by far is to stick to the home-grown product.

CHRYSANTHEMUM SHOW AT THE UNIVERSITY OF MICHIGAN.



A visit to a flower show is a perfect holiday to those who cherish their gardens. Yet not often do we see there a true proclamation of beauty; and a still rarer experience it is to find nobility and charm dominating and pervading such displays of flowers. The flower-show in this country is fortunately a more and more common occurrence; but the flower show which is perfection, one which the most critical may not criticise, this is a sort of seventh wonder of the flowery world.

And such, to the pride of every flower lover in Michigan who saw it, was the Second Annual Flower Show of the University of Michigan, in Alumni Memorial Hall at Ann Arbor. A perfect formal garden of chrysanthemums tall and dwarf, of chrysanthemums for the most part of white, of faint to strong tones of yellow, and of fine cool pinks and mauves. Set in the court or patio of this noble building, the impression the flowers gave on entering was first one of excellence of design in the garden plan, of able adjustment of proportions of the garden beds, walks and spaces to each other; a delicate sense of proportion again where perpendicular lines needed considering; beside all columns stand tall chrysanthemum plants delicately outlined against the creamy marble. I see I have yielded to instinct in already calling this flower show a garden. I violate my feeling as to this lovely arrangement by speaking of it as a flower show and shall perhaps be forgiven if I refer to it as a formal garden of chrysanthemums.

The color arrangement of this garden was nothing short of delectable. "An artist hath done this thing." There was charm seldom attained in the management of colors. The hundred or more varieties of chrysanthemums represented presented a picture ever to be recalled with delight. Balance of form and balance in color were always maintained. So cleverly was all this done that the great statues in the hall seemed to have felt the subtle influence of flowers and become as garden adjuncts—general effect considered. The glorious upward-winging Victory at the far end of the garden was not out of keeping with the tall poised flowers below. Even the Laocoon lost its tragic horror here and seemed a part of the gentler beauty of gardens. And was there not a serpent in Eden?

The hanging baskets, a half-dozen of them, covered with Mizpah chrysanthemums, were, I first thought, Bougainvillea. A remarkably successful feature of the Flower Show was the beautiful arrangement seen on the right as one entered the hall. Here below the fine relief portrait in bronze of the beloved Dr. Angell, president emeritus of the University, was a grouping of chrysanthemums in tones of rich coppery browns, bronze and tan in most interesting relation to each other and to the work of art above them. Admirable use of greenhouse plants was made with the chrysanthemums, the whole suggesting that perfectly appropriate thing at this time and in this place, a votive offering!

When one finds that here were two thousand plants in over one hundred varieties, all grown in the University greenhouse, which measures sixteen by eighty feet, and that this is managed on an income of three thousand a year, one is amazed no less at the skill of Mr. Weiner, who has grown the flowers, than at the perfect beauty of the show itself.

This indoor garden suggests reproductions of itself out of doors. What arrangements could we not have thus with heleniums and Michaelmas daisies to give again the lavenders, cool pinks and yellows; petunias, scabiosas yellow antirrhinums, Aquilegia chrysantha, the tall Thermopsis Caroliniana, white and rich pink nicotianas, pink and mauve zinnias. Given a white painted wooden peristyle modelled exactly upon the fine one in this hall, the garden to be laid out within its spaces—untold open air beauty might result.

MRS. FRANCIS KING.

BRITISH HORTICULTURE.

New Chrysanthemums.

The following list of new varieties have received awards recently from the National Chrysanthemum Society: Miss Willis, white single; Mrs. H. Bean, white, shaded pink; Maud Lousada, silvery mauve exhibition bloom; Mrs. Lawrence, rosy pink single; M. L. Smith, deep rose single; Gladys Jones, terra-cotta single; Bertha Lachaux, Japanese variety, mauve pink with silvery mauve pink reverse; also Mauve Beauty, incurved Japanese, silvery mauve.

Perpetual Flowering Carnations.

A very successful show of the Perpetual Flowering Carnation Society attracted a large attendance at the Royal Horticultural Hall, on Dec. 3rd. The exhibition was distinctly in advance of the previous ones. The challenge cup presented by the American Carnation Society for three vases of American novelties was won by C. Engelman, who exhibited Wodenethe, Northport and Enchantress Supreme. The second prize was secured by H. T. Mason, who staged Rosette, Enchantress Supreme and White Winsor. The cup presented by J. S. Brunton, the president, was another of the many awards which fell to C. Engelmann. A. F. Dutton had a fine display of popular varieties. Awards were made to the following novelties: Cinderella, mauve and cerise; Lady Fuller, salmon; Queen Alexandra, salmon pink; Pioneer, rose pink; Champion, American variety; Enchantress Supreme, and Gorgeous, cerise.

W. H. ADSETT.

WARNING!

Bogus checks and plausible stories are the means employed by a fellow giving the name of R. E. Tuttle in raising money. We have heard of a number of victims in Philadelphia, Cleveland, Buffalo and other cities, and our friends in the trade should be on their guard. The party mentioned was at one time in the employ of a well-known firm in Painesville, Ohio.

CLUBS AND SOCIETIES

LANCASTER COUNTY (PA.) FLORISTS' CLUB.

On account of the close proximity of Christmas the visiting trip was cut out for this month, but a good number of the faithful were on hand for the meeting.

The writer and organizer of the club having been president since its organization positively declined a renomination, on the principle that a continuation of the same officers from year to year is a detriment to any club. This club having a limited field to draw upon for its membership has to make up in business and integral strength what it lacks in numerical strength. Working along these lines the following strong list of officers were nominated for the incoming year: President, B. F. Barr, Lancaster; vice-president, Elmer Weaver, Ronks; secretary, Lemon Landis, Lancaster; treasurer, Harry H. Rohrer, Lancaster.

The committee on the annual banquet reported having arranged for a banquet at The Brennaman Building, Tuesday evening, January 13th, with the following program. At 2 P. M. take car for Strasburg on a visit to the growers there, returning to Lancaster at 6 P. M. Dinner at 6.30 P. M., followed by a short business meeting and an address by the Dean of Pennsylvania State College, this to be followed by bowling and other contests; the Brennaman Building being equipped for any form of amusement. Any visiting florist will be welcome to this as well as our other affairs on what we call here a "Dutch Treat"—that is, pay for your own dinner. (Cost will not be over a two-spot.) W. B. Girvin, of Leola, gave us a talk on "The Fertilizing of the Soil for Carnations," and Harry B. Weaver, of Bird-in-Hand, gave a paper on "The Propagating of Carnations." Both papers were well discussed and the dozen or so members who were not present missed some valuable information.

It was the aim of the writer to have this club be not only a helpful and social body, but one that would mean actual cash value to each of its members and after much hard work and good team work we have reached results in the shape of recognition by our local merchants, who will recognize our membership card as entitling us to some special discounts, and several of the larger wholesale concerns will also allow a discount to the man who can show his right to them by being a member of this club. Aside from the few dollars we make in discounts the men who sell us goods will find that they simply have to give us value for value received, for the man or firm that attempts to work off inferior stock will soon lose his trade in this section, where members will report anything of interest each month along these lines.

ALBERT M. HERR.

AMERICAN GLADIOLUS SOCIETY.

Public notice is hereby given that the following named gladioli have been registered with the American Gladiolus Society by the A. H. Austin Co., Wayland, Ohio. The varieties were grown on the trial grounds at Ithaca and are distinct from all other varieties tested. The following are the originators' descriptions:

Bertrex. Color white with lilac lines in throat. Size and form of America. Spike tall, straight branching. A little more slender and graceful than America. Increases rapidly; takes up water well and is a great shipper. We believe it to be a practical variety for florists' use. Winner of the silver cup for best new seedling at Cleveland Exhibition, August 15, 1913.

Candidum. Large white blooms, Tips of petals tinted and somewhat reflexed like a lily. Spike tall, erect; free bloomer, 48 blooms on main spike and two side branches.

Rose Wells (No. 55). Large, wide, open blooms; light rose, clear color with small, attractive blotch of lilac rose and yellowish green. Very tall branching spike, straight, slender and graceful.

Easter Bells. Blooms of large size, sulphur yellow, faint carmine lines in throat; tall straight spike; free bloomer and robust grower.

A. C. BELL,
Chairman Nomenclature Committee.

SOCIETY OF AMERICAN FLORISTS.

Department of Registration.

December 20, 1913.

Public notice is hereby given of the offer for registration of the following new Roses:

Any person objecting to the registration or to the use of the proposed names, is requested to communicate with the secretary at once. Failing to receive objection to these registrations, the same will be made three weeks from this date.

By Charles H. Totty, Madison, N. J.

Raiser's description. Lovely delicate shell-pink sport of Mrs. Geo. Shawyer, identical in every way with the parent variety as to growth and foliage, but the bud is larger and the color as indicated. Name, "Mrs. F. F. Thompson."

By Dieterich & Turner, Montebello, California.

Raiser's description. Originated as a sport of Mme. P. Euler "Prima Donna" of the strongest growth, combined with a freedom of bloom, size, fragrance and wonderful keeping qualities that are exceptional. Color a beautiful flesh pink deepening to the center. Foliage large and heavy and free from mildew. Name, "September Morn."

JOHN YOUNG, Secretary.

The dates for the winter meeting of the Wisconsin Horticultural Society are January 6, 7 and 8, 1914, instead of January 8, 9 and 10 as reported by some papers.

AMERICAN SWEET PEA SOCIETY.

Preliminary Schedule of Prizes for the Summer Exhibition to Be Held at the Museum of Natural History, New York, June 27 and 28, 1914.

Henry F. Michell Co.'s Prizes: For the best six vases of sweet peas—25 sprays, and a vase of six distinct Spencer varieties, Silver medal.

For the best 25 blooms, Apple Blossom Spencer with foliage. Silver medal.

For the best vase, Spencer varieties mixed with foliage—not less than 100 blooms. Silver medal.

R. & J. Farquhar & Co.'s Prizes: Bridal bouquet of sweet peas; gypsophila sprays or foliage other than that of the sweet pea may be used. (Private gardeners only.) 1st prize, $10.00; 2nd, $6.00; 3rd, $4.00.

Knight & Struck Company's Prizes: Vase of sweet peas, containing 25 sprays, of which no two are alike in shading. 1st prize, $25.00; 2nd, $15.00; 3rd, $10.00.

Peter Henderson & Co.'s Prizes: (For private gardeners) 12 vases, 20 sprays to vase, of 12 distinct varieties of Spencer sweet peas, 1st, $25.00; 2nd, $15.00; 3rd, $10.00.

Peter Henderson & Co.'s Prizes (for amateurs only): For the best 12 sprays to vase, respectively, white, pink, bicolor, lavender, cream-pink, crimson, orange and rose Spencers, $5.00 for each.

Sweepstakes: To the winner of the greatest number of Peter Henderson & Co.'s amateur prizes, $10.00.

Burnett Brothers Prize: A silver cup, value $25.00.

W. Atlee Burpee Prizes: Cup, value $25.00; for the finest 12 vases of sweet peas, 12 varieties. Vase of one variety of Spencer type introduced 1914, 1st, $5.00; 2nd, $3.00; 3rd, $2.00; vase of Grandiflora type, one variety, 1st, $5.00; 2nd, $3.00; 3rd, $2.00.

Arthur T. Boddington Prize: Challenge silver cup, value $50.00; for a collection of sweet peas, 25 varieties, not less than 25 stems to a vase, to be shown with sweet pea foliage only. To be won twice by the same exhibitor. There will also be awarded to the winner of this cup (each time won) a cash prize of $25.00; 2nd, $15.00; 3rd, $10.00.

C. C. Morse & Co.'s Prize: A silver cup, value $25.00. For the finest display of sweet peas (open to the seed trade only).

NATIONAL ASSOCIATION OF GARDENERS.

President William H. Waite, of the National Association of Gardeners, in conformity with its By-Laws, has appointed the following members to serve on the board of directors for three years from January 1st, 1914:—A. J. Smith, Lake Geneva, Wis.; Theodore Wirth, Minneapolis, Minn.; William Hertrick, San Gabriel, Cal.; Robert Bottomley, New Canaan, Conn.; Robert Angus, Tarrytown, N. Y.; Alexander Fraser, Newport, R. I.; Arthur Smith, Reading, Pa. To serve two

ROSE "MRS. GEO. SHAWYER"

North! East! South and West! the word comes back to us—"Finest Rose we ever handled!" The color holds in winter when the Killarneys bleach almost to white. We have five thousand plants that have been carried over and are now starting off splendidly. Why not remove those poor plants and replant with Shawyer, which we guarantee will give you a wonderful spring and summer crop.

Immediate Delivery, 2 1-2 in. plants, $20.00 hundred; $150.00 thousand

CHARLES H. TOTTY, MADISON, N. J.

years to fill the unexpired term of John W. Everitt, elected vice-president; James MacMachan, Tuxedo Park, N. Y.

The executive board, consisting of the officers, trustees, and directors of the association, will meet on Thursday, January 8th, at the Murray Hill Hotel, Park avenue and Forty-first street, New York, N. Y., for its first meeting for the year 1914.

It has been decided to hold a spring meeting of the association during the International Flower Show, in New York, in March next, and for which an interesting program is planned.

M. C. EBEL, Secretary.

CLUB AND SOCIETY NOTES.

The 24th annual Shaw banquet was held on Wednesday night, Dec. 17, at the University Club, St. Louis. About 150 florists, nurserymen and gardeners attended. John Noyes of Boston was the speaker of the night on Boston Parks and Playgrounds, illustrating the same with lantern slides.

The St. Louis Retail Florists' Association held its regular monthly meeting, Monday night, Dec. 15, at the Beers Hotel with a good attendance. The principal business was a discussion on the union florist and the "crepe puller." A committee on these were appointed to report back at the January meeting.

Obituary

Timothy O'Connor.

Timothy O'Connor, one of the most widely known florists in the state of Rhode Island, died at his home in Providence on Friday, 19th inst., after a long illness. He was in his 77th year. He had been ill for nearly a year, but up to last May was able to attend daily to his business. At that time his condition became more serious and he remained in his home most of the time. Five weeks ago he was confined to his bed and grew steadily worse. Death was due to a complication of diseases.

Mr. O'Connor was born in Fermoy, County Cork, Ireland, May 10, 1837, the son of Timothy and Mary Newman O'Connor. He came to Providence from Ireland when he was 16 years old and began work as a gardener. Shortly afterward he entered the employ of a florist and studied every phase of the business, seeing in it an opportunity for a good livelihood. While still in his twenties he went into the florist business for himself.

His first place was opened on Hope street. His business grew steadily, and at the time of his death was one of the most flourishing in the state. He had a large greenhouse on Blackstone boulevard, and his downtown store on Union street is conducted by his son, Timothy L. O'Connor. Two years ago the golden wedding anniversary was celebrated by Mr. and Mrs. O'Connor at their home on Barnes street. Mr. O'Connor is survived by his widow and three children, Timothy L. O'Connor, William H. O'Connor and Mrs. M. Joseph McCarthy. The death of Timothy O'Connor removes practically the last of a distinguished coterie of old-time florists of Providence. He was a most estimable gentleman, overflowing with genialty and a past-master in the fine art of homely hospitality. He was devoted to his home and family and was a model citizen.

Harry Francis.

Harry Francis, formerly a well known and popular rose grower of Madison, N. J., whose illness was mention in a recent issue of HORTICULTURE, died on Tuesday, December 16, at the Post Graduate Hospital in New York City, whither he had gone for an operation for appendicitis. About eight years ago Mr. Francis sold out his greenhouse establishment in Madison to Schultz Bros. and went to Florida, where he went into the culture of grape fruit, oranges, etc.

Richard Frohberg.

Richard Frohberg, an employee of Louis Schmutz in Flatbush, Brooklyn, N. Y., died on December 17, at the Kings County Hospital. He was 46 years of age and a native of Saxony, Germany.

J. C. Williams.

J. Caldwell Williams, who has been in the florist and nursery business at Montclair, N. J., for half a century, died at his home in that place, on Monday, Dec. 15, aged 69 years. Heart disease was the cause of his death.

REGULATIONS FOR STAGING ORCHIDS.

With reference to the exhibits at this show we have heard that the Chelsea Show Committee have revised the regulations respecting the staging of Orchids, as follows: The first or front tier of the staging to be at a height of two feet, the group rising to an average height not exceeding seven feet from the ground level. Seven feet is laid down as being the average of the extreme permissible limit of the height of the highest flowers, etc. (not pots or plant stems), as beyond that height few people can profitably see them. Palms and light foliage plants used as decoration are not subject to this limit of seven feet. Where groups occupy "island" positions they must be arranged so as to have a frontage all round.

(These regulations have given the greatest dissatisfaction to exhibitors, and unless speedily withdrawn there will be few orchids at Chelsea in 1914.)—*The Orchid World, London.*

We understand that S. J. Reuter & Son, of Westerly, R. I., have invested in 750 plants of John Cook's new rose, Francis Scott Key. As the stock is limited, this will reduce the available number of plants very materially.

CATALOGUES RECEIVED.

J. M. Thorburn & Co., New York City, "Thorburn's Seeds," 1914. The first of the 1914 seed catalogues to be received at this office—good evidence that this oldest of seed houses in America is still "up and doing." This is their 113th successive annual catalogue and, like its predecessors, it is complete, comprehensive and well arranged. The cover of soft grey tone bears the inscription in gold embossed letters without pictorial adornment and is refined and pleasing in effect. There is a good list of vegetables and flower seed novelties for the coming season.

Sutton & Sons, Reading, England.—Sutton's Amateur Guide in Horticulture for 1914. We have taken occasion in former years to comment enthusiastically on this superb production, expressing the wish that such perfection of photography, engraving and typography might yet be attained in this country. The book before us outvies even the former issues from this house and will be perused with delight and admiration by all those who are fortunate enough to receive a copy. The volume is bound in blue with inscriptions in embossed silver and besides a wealth of beautiful half tones contains a number of full-page portraits in natural colors of asters, cyclamen, wallflowers, peas, etc.

THE "KNOCKER."

The knocker is a coward. Sometimes he has ability; sometimes you'll find him a worker, but one thing you'll always find him to be—a coward. At one of our clerk meetings I said: "Gentlemen, there's to be no knocking in this concern except right at these meetings face to face with the subject of your grievance." Boys, act above the knockers. Face your man in a manly way and spit it out. It will give you self-respect and it will instill respect from others. God help the miserable knocker—the man who smiles with his lips while they're smeared with poison. Making trouble is tonic for him. Learn to detest the fearful habit. Act the man to your fellow-worker.—*Southern Merchant.*

PRINCESS DAGMAR

Without doubt the best Crimson Carnation in existence

BOOKING ORDERS NOW FOR EARLY SPRING DELIVERY

ROOTED CUTTINGS

$12.00 per 100 $100 per 1000

AWARDED

At the MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, November, 1912:
SILVER MEDAL.
At the GARDENERS' AND FLORISTS' CLUB OF BOSTON, Jan. 1913-Feb. 1913:
REPORT OF SUPERIOR MERIT (each month).
At the INTERNATIONAL FLOWER SHOW, New York, April, 1913:
FIRST for best 100 crimson.
GOLD MEDAL for 12 largest blooms.
SILVER MEDAL, Perpetual Flowering Carnation Society, England.
BRONZE MEDAL, American Carnation Society.
PRELIMINARY CERTIFICATE for Fred Dorner Memorial Medal.
At the CHICAGO HORTICULTURAL SOCIETY, April, 1913:
BRONZE MEDAL, first, best seedling not disseminated, any other color.
At the BOSTON CO-OPERATIVE FLOWER MARKET SHOW, April, 1913:
FIRST for 50 best seedlings not disseminated.
FIRST for 100 best carnations, ANY COLOR.
At the GARDENERS' AND FLORISTS' CLUB of Boston, May, 1913:
Report of HIGHEST MERIT.
At the AMERICAN INSTITUTE, New York, November, 1913:
CERTIFICATE OF MERIT.
At the HOLYOKE and NORTHAMPTON FLORISTS' CLUB, Holyoke, Mass., November, 1913:
SPECIAL PRIZE for 50 best carnations, any variety not disseminated.
At the OHIO HORTICULTURAL SOCIETY, Cleveland, Ohio, November, 1913:
CERTIFICATE OF MERIT AND SWEEPSTAKES for best seedling.

PATTEN & COMPANY

TEWKSBURY, = = = = MASS.

We grow large quantities of

Canna and Dahlia Roots
Geraniums, Petunias
Coleus, Etc.
IN 2-INCH POTS

Send for List

R. Vincent, Jr. & Sons Co.
WHITE MARSH, MD.

Mention HORTICULTURE when writing

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS
Flowerfield, L. I., N. Y.

CHRYSANTHEMUMS
STOCK PLANTS

Pacific Supreme Alice Byron
Virginia Poehlmann Golden Glow
Major Bonnaffon
$2.00 per 100 $18.00 per 1000

SHEPARD'S GARDEN CARNATION CO.
292 Fairmount St., - - - Lowell, Mass.

When writing to advertisers kindly mention HORTICULTURE.

HYDRANGEAS Best French Varieties

GEN. DE VIBRAYE, makes large heads, bright rose, easily forced, 5½ in. pots, 35c.
MME. E. MOUILLERE, the well known popular variety, best big white flowering, 5 in. pots, 35c.
OTAKSA, best old standard pink, 5½, 6 and 7 in. pots, 25, 35, 50 and 75c.
Commence now for Easter forcing.
RHODODENDRONS, 25-30 in. high, full of buds, best varieties, $1.00, $1.25 to $1.50.

For EASTER. Azalea Indica, Mme. Van der Cruyssen, Vervaeneana, de Schreveriana, Niobe, Deutsche Perle and the other best varieties, 50c., 60c., 75c., $1.00, $1.25, $1.50 to $2.00.
Cash with order, please.

GODFREY ASCHMANN, Importer of Azaleas
1012 West Ontario St., Philadelphia, Pa.

GERANIUMS TO MAKE ROOM

S. A. NUTT, 2¼ in., $15.00 per 1000. In fine condition.
POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.
ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.
FUCHSIAS, 2¼ in., $2.00 per 100.
DRACAENAS, 3 in., $4.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave., Schenectady, N. Y.
Mention HORTICULTURE when writing

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

卐 卐

Swastika Brand Cannas

Never have we had finer, better, cleaner, or in such variety. Send in your listing orders. Shipments made at your convenience.

CONARD & JONES CO.
West Grove, Pa.

卐 卐

MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless, the New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class — 21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS
COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK



THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI
AND
BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

ERNEST OECHSLIN
Gale Ave. and Madison St.
RIVER FOREST, - ILL.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

ORCHIDS

Imported and Potted
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL. Summit, N. J.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

SPHAGNUM MOSS

10 bbl. bales; selected stock; neatly burlapped. "Worth While Quality," "Square Deal Quantity." 5% off cash with order.
1 bale . . $3.80 10 bales, each $3.40
5 bales, each . 3.60 25 bales, each 3.20
Car lots. Write for prices.
LIVE SPHAGNUM, $1.25 per bbl.
ROTTED PEAT, 70c. each.
J. H. SPRAGUE, Barnegat, N. J.

You Cannot Possibly Go Wrong
by investing in the
PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.
1218 Betz Building
Philadelphia, Pa.

KILLARNEY BRILLIANT
THE Great Forcing ROSE
ROBERT SCOTT & SONS, Sharon Hill, Pa.

HOLLAND NURSERIES
BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.
P. OUWERKERK, 216 Jane St., Weehawken Heights P O No 1, Hoboken, N. J.

NEW AND CHOICE FLOWER SEEDS

FOR FLORISTS

Many Early Varieties Should Be Started Indoors Now.

Complete collections of all the best varieties will be found in our Catalogue for 1914 mailed free on application.

R. & J. FARQUHAR & CO., BOSTON, MASS.

New Red Rose "FRANCIS SCOTT KEY"

A Seedling of Cardinal Crossed with an Unnamed Red Seedling

Flowers large to very large, with sixty and more petals opening to a high center. Averages longer and stiffer stems than any Hybrid Tea Rose I know of under glass. A hardy and easy grower. Every florist can grow it.

It does not need coaxing or boosting. Stock limited. Plants Ready for Delivery from now on.

Strong plants, own root, 2 1-2 in. pots, $30 per 100; $7 for 12 plants: $12 for 25 plants. Cash with order

JOHN COOK 318 N. CHARLES STREET BALTIMORE, MD.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.

BOSTON, MASS.

A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

BOBBINK & ATKINS

PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N.J.

U-GET-A SQUARE DEAL

FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

SEND FOR PRICE LIST W. B. WHITTIER & CO., So. Framingham, Mass.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SMITH'S PRODUCTS

Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS**. 50c. postpaid. Ask for our 1913 CATALOGUE and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE**, the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT — JAPANESE MAPLES IN POTS

Potted Strawberries our OWN GROWING — Roses from 6-INCH pots

Send us a list of your wants

P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

The New French Hydrangeas

The dormant stock which we now have stored in cold frames is in prime condition to force for Easter, or to bring on slowly for Memorial Day and Spring sales. If you have no stock of these, you will make no mistake in taking advantage of this offer, you will find them good sellers.

AVALANCHE. A splendid large white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy white color; it is not suited for forcing, but for Decoration Day and later flowering it is very valuable.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose, very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose colored flowers, a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite during the past two years.

MME. A. RIVERAIN. Superb bright rose color; very vigorous and floriferous.

MME. E. MOUILLERE. Probably the most popular white variety on the market today, an early easy variety to force.

MME. MAURICE HAMAR. A delicate flesh-rose color, a vigorous grower, the individual flowers as well as the trusses being very large. One of the easiest to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MME. AGNES BARILLET. A splendid white; a grand variety for a 5 or 6-inch pot plant. From our own observation we are inclined to consider this the best of all the whites.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers. One of the best growers says that this should have been awarded the Silver Medal given to Mme. Emile Mouillere.

MLLE. DE TREMAULT. As the result of our own trials we are convinced that this variety is the best very large flowered white yet introduced. As free flowering as any, of splendid erect habit, producing flower-heads as large as the old popular Otaksa.

MOUSSELINE. A beautiful mauve-rose with cream-colored centre; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear-flesh rose, entirely distinct, one of the best very early flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose with carmine reflex; very free and easily forced.

ORNAMENT. Large pretty mauve-pink flowers, very free flowering.

RONSARD. Flowers and trusses very large, of a beautiful rose-tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

SENATEUR HENRI DAVID. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads on the style of La Lorraine, but an earlier bloomer.

Price on Any of the Above Varieties

5-inch pots - - - $2.50 per dozen; $20.00 per 100
6- " " - - - 4.00 " " 30.00 " "
One each of the Set of 21 Varieties in 5-inch pots for $4.00
" " " " " " " " " " 6-inch " " 6.00

HENRY A. DREER, Inc.

714 Chestnut Street, - - - - PHILADELPHIA, PA.

The above prices are intended for the trade only

AUGUST RÖLKER & SONS

Import for the Trade only

AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

P. O. Box 752 or 51 Barclay St., NEW YORK

100,000 Geraniums

From 2 and 2¼ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

ALONZO J. BRYAN, Washington, New Jersey

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

PENDLETON

DAWN, AMERICA

And other choice Gladiolus Bulbs.
Send for price list to

BROOKLAND GARDENS
Lexington Street WOBURN, MASS.

CYCLAMEN

Best strain in existence.

4 inch $25.00
5 inch 50.00
6 inch 75.00

THOMAS ROLAND, Nahant, Mass.

Fine Plants Right Along After Christmas

A Succession of Azaleas, all colors, and Superb Cyclamen. Lilacs soon.

A. SCHULTHEIS College Point, N. Y.

"THE RIGHT SEED IN THE RIGHT PLACE"

We furnish grass mixtures for dooryards, terraces, lawns, athletic and polo fields, cemeteries, parks, country clubs, country estates.

Repeated laboratory tests on individual mixtures assure superiority of quality and growth.

Experience of over fifty years of successful seed business assures you of correct proportions.

Experiment has shown us that a mixture of the proper grasses is more satisfactory than an individual grass. Why waste your time and money experimenting. Let us furnish what you need.

THE ALBERT DICKINSON COMPANY

SEED MERCHANTS

MINNEAPOLIS CHICAGO

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. E. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

New Zealand Garden Peas.

F. Cooper, Ltd., Wellington, N. Z., report under date of Nov. 7, 1913, about the condition of garden peas, as follows:

"Our Mr. Geo. Cooper has just returned from a first inspection of the crops. The spring until about two weeks ago was very dry and they were suffering somewhat, but recently we had four days' heavy rain, which will make a wonderful difference. It is too early to give an estimate of the crop, but about Christmas we shall be able to send a full report."

Cleveland, Ohio—Wm. Brinker, seedsman, 1223 Prospect avenue, has sold his business to F. G. Johnson, of Jackson, Mich.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT

Michell's Seasonable
FLOWER SEEDS NEW CROP

Asparagus Plumosus Nanus

Northern Greenhouse Grown Seed

500 Seed $1.75 1,000 Seeds $3.00
1,000 " .25 10,000 " 20.00
Special prices on larger quantities

Asparagus Hatcheri Seed

100 Seeds $1.00
500 " 4.25
1,000 " 8.00
Special prices on larger quantities

Verbena Seed

Michell's Mammoth Fancy Strain.

	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.50	$1.75
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

Vinca Seed

ALBA. White with rose centre	$0.15	$0.50
ALBA PURA. Pure white	.15	.50
ROSEA. Pink	.15	.50
MIXED	.15	.40

Salvia Seed

MICHELL'S SCARLET GLOW	$0.50	$1.50
BONFIRE	.10	2.00
SPLENDENS	.15	3.00
ZURICH	.50	4.00

Also all other Seasonable Seeds, Bulbs and Florists' Supplies. Send for Wholesale Catalogue.

HENRY F. MICHELL CO.
Flower Seed Specialists
518 Market Street, PHILADELPHIA, PA

FELIX & DYKHUIS.
HIGH GRADE BOSKOOP NURSERY-STOCK
BOSKOOP-HOLLAND.



FROM HOLLAND FAR, DUTCH LADY HANDS TO UNCLE SAM HER FINEST BRANDS.

Jack Frost Mats

For Cold Frames

$1.40 each. Burlapped

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

When writing to advertisers kindly mention HORTICULTURE.

SURPLUS SPIREA, Etc.

SPIREA, Peach Blossom
SPIREA, Gladstone
SPIREA, Queen Alexandra
SPIREA, Japonica
SPIREA, Compacta

GLADIOLUS, The Bride
GLADIOLUS, Blushing Bride
HELEBORUS Niger
DIELYTRA Spectabilis

Prices on Application

BURNETT BROTHERS, Seedsmen
98 CHAMBERS STREET NEW YORK

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of
FLOWER SEEDS FOR FLORISTS
Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.
J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

FRESH STOCK **LILIUM GIGANTEUM 8-9 in.**
L. Speciosum, Rubrums, Magnificums and Albums, 8-9 in.
WRITE FOR PRICES
YOKOHAMA NURSERY CO., Ltd. 51 Barclay Street, NEW YORK, N. Y.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade
LEONARD SEED CO.
226-230 W. KINZIE STREET, CHICAGO
ONION SETS
Write for Prices

LAWN GRASS SEED
WHOLESALE ONLY
J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

We have all the leading
WINTER SWEET PEAS
at $2.00 per lb. Try a few of our
NEW WINTER ORCHID
SWEET PEA, at $4.00 per ½ oz.
Late or Summer Sweet Peas; Frank Dolby, Nora Unwin, Gladys Unwin, at $1.25 per lb.
Pink Spencer, White Spencer, Lavender Spencer, King Edward Spencer, at $3.00 per lb.
ANT. C. ZVOLANEK
LOMPOC, CALIFORNIA

FOTTLER FISKE RAWSON CO.,
LILIES BOSTON
HARRISII
LONGIFLORUM
FORMOSUM
GIGANTEUM
LILIUM CANDIDUM
Write us for price.
See Our Special Florist List

OTTO HEINECKEN
Horticultural Agency
Whitehall Bldg., 17 Battery Place
NEW YORK

Sole American Representative of:
J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.
E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.
A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable Seeds.
H. ZYP & CO., Lisse (Holland)
Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.
WRITE FOR PRICES.
Mention HORTICULTURE when writing

NEW CROP SEEDS
FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No. Market St., BOSTON, MASS.

SPIRAEA

	100	1000
Astilboides floribunda	$4.00	$35.00
Japonica	4.00	35.00
Japonica compacta multiflora	5.00	40.00
Palmata	7.00	
Washington	5.00	40.00
Queen Alexandra	8.00	65.00

LILIUM

		100	1000
L. Giganteum	6-8..	$3.50	$30.00
L. Giganteum	7-9..	5.00	45.00
L. Giganteum Multiflorum	6-8..	3.50	
L. Giganteum Multiflorum	7-9..	5.00	
L. Longiflorum	6-8..	3.00	

LILY OF THE VALLEY
PIPS JUST ARRIVED.
Prices on Application.

J. M. Thoburn & Co
"The most reliable seeds"
53 Barclay St. T21 New York, N. Y.

PANSY SEED
GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.
GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.
THOMAS J. GREY CO.
32 South Market St., Boston, Mass.

Jersey Grown Callas
1 1-2 inches in diameter and up.
To clean out $50.00 per 1000
O. V. ZANGEN
SEEDSMAN, HOBOKEN, N. J.
Mention HORTICULTURE when writing

Place your order now for Ayres' Winter Flowering
SWEET PEA SEED
S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

When writing to advertisers kindly mention HORTICULTURE.

THE FLORISTS' TELEGRAPH DELIVERY

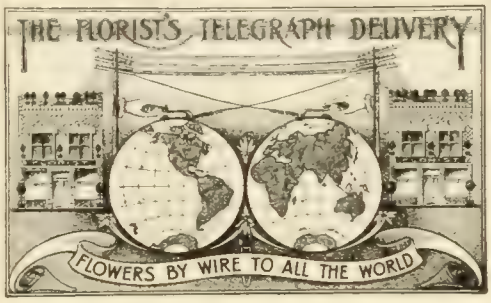
Retailers' Section of the Society of American Florists and Ornamental Horticulturists

OFFICERS

President
IRWIN BERTERMANN
Indianapolis, Ind.

Vice-President
W. F. GUDE
Washington, D. C.

Treasurer
W. L. ROCK
Kansas City, Mo.



DIRECTORS

ERNST WEINHOEBER
A. B. CARTLEDGE
FRED H. MEINHARDT
PHILIP BREITMEYER
GEORGE ASMUS
J. A. VALENTINE
JOHN BERTERMANN
HENRY PENN

Mutual Discounts 20 per cent. Provisions for Guaranteed Accounts.
Write to Albert Pochelon, Secretary, 153 Bates St., Detroit, Mich. Our list is growing steadily; so is the Telegraph Business.
ADD YOUR NAME TO THIS LIST.

Akron, Ohio, 26 South Main St.....H. Heepe's Sons
Albany, N. Y., 40 & 42 Maiden Lane.....Danker, Fred A.
Albany, N. Y., 97 State St.....W. C. Gloeckner
Albany, N. Y......The Rosery Flower Shop
Anderson, S. C......Anderson Floral Co.
Atlanta, Ga......C. A. Dahl Co.
Atlantic City, N. J., 1505 Pacific Ave.....Berke, Geo. H.
Atlantic City, N. J......Edwards Floral Hall Co.
Augusta, Ga......Stulb's Nursery
Austin, Minn......Kinsman, A. N.
Baltimore, Md., 509 N. Charles St.....Pierce & Co.
Bay City, Mich., 325 Park Ave.....Boehringer Bros.
Bloomington, Ill., 318 N. Main St.....Washburn, A. & Sons
Boston, Mass., 342 Boylston St.....Carbone, Philip L.
Boston, Mass., 43 Bromfield St.....Penn, Henry
Boston, Mass., 143 Tremont St.....Wax Brothers
Brooklyn, N. Y., 272 Fulton St. and 7 Clinton St., Phillips, John V.
Buffalo, N. Y., 440 Main St.....S. A. Anderson
Buffalo, N. Y., 304 Main St.....Palmer, W. J. & Son
Calgary, Alberta, Canada.....Terrill, Ltd., A. M.
Cedar Falls, Iowa.....Joseph Bancroft & Sons
Cedar Rapids, Iowa.....Kramer & Son, I. N.
Charleston, W. Va., 19 Capitol St., Charleston Cut Flower & Plant Co.
Charleston, W. Va., 811 Quarrier St.
The Winter Floral Co., H. F. Winter, Prop.
Chicago, Ill., 25 E. Madison St.....Lange, A.
Chicago, Ill., 854 N. State St.....Neiglick, Chas. T.
Chicago, Ill., 2132-2134 Michigan Ave.....Samuelson
Chicago, Ill., 2223 W. Madison St.....Schiller, The Florist
Chicago, Ill., 31st and Michigan Ave.....Smyth, W. J.
Chicago, Ill., 22 E. Elm St.....Wienhoeber Co., Ernst
Cincinnati, O., 138 E. 4th St.....Baer, Julius
Cincinnati, O., 150 E. 4th St.....Hardesty, T. W. & Co.
Cincinnati, O., 532 Race St.....E. G. Hill Floral Co.
Cleveland, O......Gasser Co., J. M.
Cleveland, O., 5523 Euclid Ave.....Graham, A. & Son
Cleveland, O., 1284 & 1308 Euclid Ave.....The Jones-Russell Co.
Cleveland, O., 1836 W. 25th St.....Knoble Bros.
Colorado Springs, Colo......Crump, Frank F.
Colorado Springs, Colo......Pikes Peak Floral Co.
Corsicana, Texas.....Holm, Alfred
Council Bluffs, Ia., 321 Brodway.....Wilcox, J. F. & Sons
Danville, Ill......Smith, F. B. & Sons
Dayton, O., 112 S. Main St.....Heiss Company
Defiance, O......Winterich, Christ
Denver, Colo., 1643 Broadway.....The Park Floral Co.
Des Moines, Ia......Wilson Floral Co., J. S.
Detroit, Mich., 153 Bates St.....Bemb Floral Co., The L.
Detroit, Mich., Gratiot Ave. & Broadway..Breitmeyer's Sons, John
Detroit, Mich., Newland & Gratiot Aves.....Plumb, Chas. H.
Dubuque, Ia......Harkett's Floral Co.
Edwardsville, Ill., 1308 St. Louis St.....J. F. Ammann Co.
El Paso, Texas, Mills Bldg.....Potter Floral Co.
Evansville, Ind., 522 Main St.....Blackman Floral Co., The Wm.
Evanston, Ill., 602 Davis St.....Weiland, M.
Fargo, N. D......Smedley & Co.
Fayetteville, Ark., 18 W. Center St.....The Southwestern Seed Co.
Florence, S. C......The Palmetto Nurseries, De Witt House
Fond du Lac, Wis., 414 Linden St.....Haentze Co.
Fort Smith, Ark., 11 N. 8th St.....Brockman's Flower Shop
Fort Worth, Texas.....McAdam, J. E.
Galesburg, Ill......Pillsbury, I. L.
Grand Rapids, Mich., Monroe & Division Aves.....Smith, Henry
Greenfield, Mass......Richards, E. A.
Greensburg, Pa., 200 N. Main St.....Thomas, Joseph
Harrisburg, Pa., 313 Market St.....Charles Schmidt
Hartford, Conn......Coombs, John F.
Highland Park, Ill......Highland Park Greenhouses
Hoboken, N. J., 113 Hudson St.....Grulich, J. & Sons
Indianapolis, Ind., 241 Massachusetts Ave...Bertermann Bros. Co.
Indianapolis, Ind., 225 N. Penna St.....E. G. Hill Floral Co.
Indianapolis, Ind., 1610-1620 N. Illinois St..Wiegand's Sons Co., A.
Joliet, Ill., Hobbs Bldg.....Labo, Joseph
Kalamazoo, Mich., 141 S. Burdick St.....Van Bochove & Bro.
Kansas City, Mo., 913 Grand Ave.....Murray, Samuel
Kansas City, 1116 Walnut St.....Rock, W. L. Flower Co.
Knoxville, Tenn......"Home of Flowers," Baum, Chas. H.
Kokomo, Ind......Coles, W. W.
Lansing, Mich., 624 North Capitol Ave.....John A. Bissinger
Lexington, Ky., 123 East 6th St.....John A. Keller
Lincoln, Neb., 1338 O St.....Frey & Frey, Florists
Little Rock, Ark., 521 Main St.....Tipton & Hurst
London, Ont., Canada.....J. Gammage & Sons
Louisville, Ky., Masonic Temple.....Baumer, August R.
Louisville, Ky., 550 S. 4th Ave.....Schulz, Jacob
Lowell, Mass., 8 Merrimack Sq.....Morse & Beals
Macon, Ga......Idle Hour Nurseries
Mankato, Minn......Windmiller Co., The
Milwaukee, Wis., 349 3rd St.....Edlefsen-Leidiger Co.
Milwaukee, Wis......McKenney & Company, M. A.
Minneapolis, Minn., 34 S. 5th St., 932 Nicollet Ave., and .....
Radisson Hotel.....Whitted Floral Co., H. B. Whitted, Prop.
Mobile, Ala......The Minge Floral Co.
Montgomery, Ala., 116 Dexter Ave.....Rosemont Gardens
Mt. Clemens, Mich......August Von Boeselager
Mt. Vernon, N. Y., 25 S. 4th Ave.....Dummett, Arthur
Nashville, Tenn......Joy Floral Company
Newark, O......Duerr, Chas. A.
New Castle, Pa., North Mercer St.....Butz Bros.
New Haven, Conn., 1026 Chapel St.....Champion & Co., J. N.
New London, Conn......Reuter's
New Orleans, La., 3442 St. Charles St.....The Avenue Floral Co.
New Orleans, La., 121 Baronne St.....Eble, Charles
New Orleans, La......Metairie Ridge Nursery Co.
New York, N. Y., Madison Ave. & 44th St.....Dards, Chas. A.
New York, N. Y., 611 Madison Ave., cor. 58th St., Myer, The Florist
New York, N. Y., 427 Fifth Ave.....Siebrecht & Son
New York, N. Y., 22 W. 59th St.....Schling, Max
New York, N. Y., 1153 Broadway.....Small, J. H. & Sons
New York, N. Y., 761 Fifth Ave.....Stumpp, Geo. M.
Norfolk, Va., Colonial Theatre Bldg.....Grandy, The Florist
Northampton, Mass......Field, H. W.
Norwich, Conn......Reuter's
Oklahoma City, Okla......Stiles Co., The
Omaha, Neb., 1519 Farnam.....Henderson, Lewis
Omaha, Neb......Hess & Swoboda
Owosso, Mich......Owosso Floral Co., Thiemann, Hermann
Palm Beach, Fla., Hotel Royal Poinciana.....Foster & Foster
Parkersburg, W. Va......Dudley & Sons, J. W.
Pasadena, Cal., 13 East Colorado St.....The Orchid
Passaic, N. J., 85 Broadway.....Sceery, Ed.
Paterson, N. J......Sceery, Edward
Philadelphia, Pa., 1800 Chestnut St.....The London Flower Shop
Philadelphia, Pa., 1514 Chestnut St.....Pennock Bros.
Phoenix, Ariz., Cretus Way & Wash. St....Donofrio's Floral Dept.
Pittsburgh, Pa., 5936 Penn Ave.....Randolph & McClements
Pittsfield, Mass., 40 Penn St.....The Flower Shop
Portland, Ore., 133 Sixth St.....Tonseth Floral Co.
Poughkeepsie, N. Y......Saltford Flower Shop
Quincy, Ill......Gentemann Bros.
Racine, Wis., 504 Wisconsin St.....Hinchliffe, Mrs. J. T.
Richmond, Va., 109 E. Broad St.....The Hammond Co., Inc.
Rochester, N. Y., 25 Clinton Ave.....J. B. Keller's Sons
Rockford, Ill......Buckbee, H. W.
Rockville Centre, N. Y......Ankers, Clarence R.
Saginaw, Mich., 117 S. Jefferson Ave.....Grohman, the Florist
San Francisco, Cal., 123-125 Kearny St.....Pellcano, Rossi & Co.
Saratoga Springs, N. Y., Lake & Nelson Aves....T. J. Totten, Inc.
Scranton, Pa......Clark, G. R.
Seattle, Wash., 1534 Second Ave.....Hollywood Gardens
Sedalia, Mo......Archias Floral Co.
Sheboygan, Wis., 625 N. 8th St.....Matthewson, J. E.
Sioux City, Ia......J. C. Rennison Company
Sioux City, Ia., 405 Douglas St.....Rocklin & Lehman
Spokane, Wash., 11 Post St.....Hoyt Bros. Co.
Springfield, Mass., 378 Main St.....Aitken, Mark
St. Joseph, Mo......Stuppy Floral Co.
St. Louis, Mo., 7th & Washington Ave.....Grimm & Gorly
St. Louis, Mo., 7041 Florissant Ave.....Meinhardt, Fred A.
St. Louis, Mo., 4326-28 Olive St.....Weber, Fred C.
St. Louis, Mo., Boyle & Maryland Aves.....Weber, Fred H.
St. Paul, Minn., 24 W. 5th St.....Holm & Olson
Tarrytown, N. Y......Pierson Co., F. R.
Terre Haute, Ind., 139 S. 7th St.....Heinl, John G. & Son
Toledo, O., 336 Superior St.....Freeman, Mrs. J. B.
Toledo, O., 2941 Cherry St.....Mrs. E. Suder
Topeka, Kan., 112 W. 8th Ave.....Mrs. Lord's Flower Room
Toronto, Ont., 123 King St., W.....Dillemuth, The Florist
Toronto, Ont., 266 Yonge St.....Simmons, J. S.
Washington, D. C., 1214 F St., N. W.....Gude Bros. Co.
Washington, D. C., 14th & G Sts.....Small, J. H., & Sons
Wellesley, Mass......The Wellesley Florist, J. Tailby & Son
Wheeling, W. Va......Langhans, Arthur
Wichita, Kan., 145 N. Main St.....Mueller, Chas. P.
Worcester, Mass., 371-373 Main St.....Lange, H. F. A.
Worcester, Mass., 3 Pleasant St.....Randall's Flower Shop
Youngstown, O., 41 North Phelps St.....Geo. W. Kay
Youngstown, O., 11 S. Phelps St.....Walker, John
Zanesville, O., 54 N. 5th St.....The Imlay Company

Compare dues from $1.00 to $5.00 annually with other methods of obtaining results. Can you afford not to receive orders from the above members whose yearly Telegraph business is estimated over $500,000 annually? Guarantee orders to your customers. It will bring Results.

JOHN BREITMEYER'S SONS
Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1503
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Memphis, Tenn.—W. B. Weeks.

Gary, Ind.—John Owens, 31 W. 6th avenue.

Lenox, Mass.—Michael O'Brien, Mahanna Block.

Atlantic City, N. J.—Littman, the Florist, 909 Boardwalk.

BUSINESS TROUBLES.

Edward MacMulkin, florist, Boylston street, Boston, made a special assignment for the benefit of his creditors, to Wm. G. Gooch of Watertown, on Wednesday, December 24.

STEAMER DEPARTURES

Allan.

Sicilian, Boston-Glasgow.....Jan. 8

Atlantic Transport.

Minneapolis, N. Y.-London....Jan. 10

Cunard.

Saxonia, N. Y.-Mediter'n.....Dec. 31
Campania, N. Y.-Liverpool...Dec. 31
Franconia, N. Y.-Mediter'n....Jan. 8

French.

La Lorraine, N. Y.-Havre.....Dec. 31
Niagara, N. Y.-Havre.....Jan. 3
La Savoie, N. Y.-Havre.....Jan. 7

Hamburg-American.

Pisa, Boston Hamburg.....Dec. 29
Pres. Grant, N. Y. Hamburg..Jan. 3
Amerika, N. Y.-Hamburg.....Jan. 6

Holland-America.

Rotterdam, N. Y.-Rotterdam..Dec. 30

Leyland.

Bohemian, Boston-Liverpool...Jan. 3
Winifredian, Boston-Liverp'l..Jan. 10

North German Lloyd.

G. Washington, N. Y.-Bremen.Jan. 3
Koenig Albert, N. Y.-Med'r'n..Jan. 8

Red Star.

Kroonland, N. Y.-Antwerp....Dec. 31
Finland, N. Y.-Antwerp.....Jan. 7

White Star.

Cmyric, Boston-Liverpool.....Dec. 30
Majestic, N. Y.-S'hampton.....Dec. 31
Cedric, N. Y.-Liverpool.....Jan. 1

NEW CORPORATIONS.

Greensboro, Cal.—Greensboro Floral Co.; incorporators, A. J. Klutz, C. B. Bogart, W. R. Combs, J. H. Shipe.

NEWS NOTES.

Ithaca, N. Y.—Thomas Bros., of Owego, have purchased the Bool Floral Company, 215 East State street.

Stamford, Conn.—The greenhouses and equipment of H. Le Page, formerly in the florists' business here, has been purchased by C. T. W. Main.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflow.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
28 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

The California Florist
JULIUS EPPSTEIN — FRANK H. FORREST
344-346 Geary Street, SAN FRANCISCO, CAL. and Hotel St. Francis.
We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

PERSONAL.

New York visitors: W. R. Nicholson, Framingham, Mass.; Frank Witney, Fishkill, N. Y.

Boston visitors: W. C. Rickards, representing J. M. Thorburn & Co., New York; Dr. Geo. E. Stone, Amherst, Mass.

Cincinnati visitors: Sam Seligman, New York; Messrs. Dailledouze, Brooklyn, N. Y.; Joseph Hill and Fred Lemon, Richmond, Ind.

OUR WISH!
MAY
Christmas
Bring you the Satisfaction of work well-done, with
PROSPERITY as YOUR REWARD and
GOOD HEALTH YOUR BLESSING
M. RICE CO.
1220 Race St., PHILA., PA.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

BOSTON'S BEST
In Quality and Design
Can be relied upon when you transfer your retail orders to
EDWARD MACMULKIN
194 Boylston Street, BOSTON.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

A Florist's Necessity

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.	
2	15 " "	3.50 " "		5	30 " "	6.50 " "	
3	18 " "	4.00 " "		6	36 " "	9.00 " "	

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

GEORGE H. COOKE

FLORIST

Connecticut Ave. and L St., N. W.

WASHINGT ON, D. C.

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.

Palmer's

304 Main Street

BUFFALO, N. Y.

Members Florists' Telegraph Delivery Association

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

CHICAGO NOTES.

J. Muir is now in his loop store, with an attractive window display.

R. J. Haight, secretary of the Horticultural Society of Chicago, is leaving for California.

Some of the retail florists are coming out with page advertisements in the local newspapers.

The Chicago Carnation Co. had a large cut of their new carnation, Peerless Pink, for the Christmas trade, and the flowers certainly showed up well.

Nothing new was offered this year. Supply houses are reporting sold out. Even conservative estimates place the quantity of ruscus handled in Chicago this year as twenty-five tons.

One of Frank Oechslin's large auto trucks was disabled for a part of the holiday delivery, in collision with a street car and it was fortunate that the results were not more serious. As it was the rear of the truck only was smashed and a small portion of the load of plants demolished.

It is worthy of note that the express companies in Chicago are collecting for out-of-town shipments, an average of 20 loads of ruscus and other dried and prepared goods daily for holiday use. It is impossible to believe that this is not cutting into the sales of the living flowers and plants.

One hundred and twelve thousand persons visited the chrysanthemum show held at the Garfield Park conservatory from Nov. 9 to 30 this year. This is twice the attendance of last year. The commissioners of the West Park board will hold a mid-winter exhibit in the Garfield Park conservatory from Dec. 21 to Jan. 4.

The municipal Christmas tree, erected by the Art Institute for the poor children of Chicago, is given in memory of the late Capt. Schuneman, known as the Christmas tree man, who went down with his cargo of trees last year. The tree is 35 feet high, mounted on a 40 foot base and illumined with electric lights. Mrs. Schuneman and her daughter are carrying on the business and selling Christmas trees at the usual place on Clark street.

Visitors: Michael Rochlan, Sioux City, Iowa; Wm. Flynn, Columbus, Ohio; Agnes Rigden, Ottawa, Ill.; Paul Palos, Little Rock, Ark.; W. S. Jackson, Racine, Wis.; O. O. Schrock, Ligonier, Ind.

PHILADELPHIA NOTES.

Dennis T. Connor is "down and out," that is to say, he is down to the parlor and out of bed. We may therefore hope to see his genial face in our midst again very soon.

Edwin Lonsdale writes from Pasa Robla, Cal., where he has been taking the waters, that his health is much improved and he expects to be back on the Burpee farms at Lompoc again very soon. He has had a tough time of it all summer.

Visitor: J. E. Keller, representing William Rennie, Toronto, Canada.

YALE AND ALL CONNECTING POINTS

Flower and Plant Deliveries.

J. N. Champion & Co.

1026 Chapel St., New Haven, Conn.

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

THE Florists' Supply House of America

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia, Pa.

MOTHER OF PEARL LETTERS

THE LATEST NOVELTY

GOLD LETTERS

Send for Prices.

AMERICAN IMPORTING CO.

219 So. Bearborn Street, Chicago

UNITED REFRIGERATORS

Sell Flowers and keep them in best condition. All sizes Display Cases, Coolers, etc. Ask for Catalog X4.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

Gardenias

They are more plentiful, and from now on we expect to be able to take care of all orders. Let us book your order for your weekly needs in Gardenias. This stock is splendid condition, fine, large flowers.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Flowers	CINCINNATI December 15	CHICAGO December 15	BUFFALO December 15	PITTSBURG December 15
American Beauty, Special	20.00 to	to	75.00 to 85.00	..... to 50.00
" " Extra	to	50.00 to	50.00 to 60.00	to
" " No. 1	10.00 to	to	to 50.00	20.00 to
[illegible]	6.00 to	15.00 to 25.00	20.00 to 25.00	8.00 to 12.00
[illegible]	to	6.00 to 12.00	to 15.00	to 6.00
Richmond, Hillington, Extra	8.00 to 10.00	25.00 to 35.00	12.00 to 15.00	to
" " Ordinary	to 6.00	to	8.00 to 10.00	6.00 to
Maryland, Wm. Marshall	to 10.00	to 30.00	20.00 to 25.00	8.00 to 12.00
" " Ordinary	3.00 to 5.00	to 15.00	10.00 to	..... to 6.00
Russell, Shawyer	.....	.....	to 25.00	..... to .....
[illegible] Extra	3.00 to 5.00	to	to	to 6.00
" Ordinary	2.00 to	to 8.00	4.00 to 6.00	..... to 3.00
[illegible]	to	75.00 to 100.00	..... to	to
[illegible]	to	to	15.00 to 20.00	..... to 15.00
[illegible]	8.00 to	12.00 to	10.00 to 12.00	..... to 15.00
[illegible]		8.00 to	10.00 to 15.00	..... to .....
[illegible]	3.00 to	to	to 5.00	3.00 to 4.00
[illegible]	2.00 to 3.00	to 4.00	2.00 to 3.00	..... to 3.00
[illegible]	2.00	to	to	to
[illegible]	to	to 2.00	to	to 1
[illegible]	to	to	to 1.25	..... to 3.00
Sweet Peas	to 2.00	1.50 to 2.00	to 1.50	to 1.00
[illegible]	25.00 to 30.00	40.00 to 50.00	..... to	40.00 to
[illegible]	to	to 1.00	to 1.00	to 1.25
[illegible]	15.00 to 15.00	to 15.00	10.00 to 15.00	..... to 20.00
Violets, Single	40.00 to	to 50.00	25.00 to 50.00	to 50.00
" Double	to	to	to	to 50.00

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST. - - - - - BOSTON

Telephone, Main 80

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.



FOR NEW YEAR'S

Richmonds in quantity at $10.00 to $15.00 with a few extra choice, long at $20.00.

Beauties, splendid quality and plenty of them, all grades $3.00 to $6.00 per dozen.

TO OUR SOUTHERN CUSTOMERS

Don't forget that our Baltimore and Washington Houses are well equipped to take care of your orders in anything you may want.

RIBBONS AND SUPPLIES—Many new patterns in exclusive Ribbons. If you have not received one of our new catalogues, advise us at once and we will mail you one.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

PHILADELPHIA 1608-20 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N. W. | BALTIMORE Franklin and St. Paul Sts.

Flower Market Reports

BOSTON At present writing (Wednesday, the 24th), the market situation is such that the final Christmas story for this neighborhood is no conjecture. The counters in the market stalls are heaped with unsold flowers, in which carnations, roses, lilies and other bulbous flowers, poinsettias and stevia predominate. In truth, the quantity of unsold material hanging fire on all sides would, a few years ago, have come pretty near supplying the entire local Christmas demand. The wholesale houses still doing a shipping trade are in better shape, having relieved themselves and the market of a very large amount of material at the first of the week. The flowers which have cleaned up at regulation figures and have made a satisfactory record are single violets, gardenias, sweet peas and cattleyas. Of the last named there are a good many left over, but the quality is such that the reason for rejection is evident. The plant trade has been quite brisk, but there are many azaleas still seeking a buyer, the moderate weather having hastened them along faster than usual.

BUFFALO There has not been much doing in the cut flower line for the past two weeks, though sales ran good on holly and other decorative material. The supply on many lines has shortened especially on roses from local growers, the weather having been very cloudy. Carnations were enough to supply all and have been cleaned up daily. There have been too many white and not enough colored. Other stock has been in good supply. The holiday rush is on this week and indications point for a good trade. Plants are coming into the market in quantity which no doubt will have an influence on the sale of cut material, should prices rule too high.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON Xmas Prices			ST. LOUIS December 15			PHILA. December 15		
Roses									
Am. Beauty, Special	40.00	to	100.00	25.00	to	40.00	25.00	to	35.00
" " Fancy and Extra	25.00	to	35.00	18.00	to	20.00	15.00	to	20.00
" " No. 1	15.00	to	20.00	[illegible]	to	15.00	8.00	to	12.50
Killarney, Extra	10.00	to	25.00	[illegible]	to	10.00	6.00	to	10.00
" Ordinary	[illegible]	to	6.00	4.00	to	8.00	3.00	to	6.00
Richmond, Hillingdon, Extra	10.00	to	25.00	8.00	to	12.00	10.00	to	12.00
" " Ordinary	5.00	to	6.00	5.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	10.00	to	25.00	8.00	to	10.00	[illegible]	to	15.00
" " " Ordinary	6.00	to	8.00	4.00	to	6.00	4.00	to	6.00
Russell, Shawyer	25.00	to	50.00	.....	to	.....	5.00	to	25.00
Carnations, Extra	4.00	to	8.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	2.00	to	3.00	2.00	to	2.50	2.00	to	3.00
Cattleyas	40.00	to	75.00	40.00	to	50.00	40.00	to	60.00
Cypripediums	.....	to	[illegible]	.....	to	.....	12.50	to	15.00
Lilies Longiflorum	6.00	to	10.00	12.00	to	15.00	10.00	to	12.50
Callas	.....	to	12.00	10.00	to	15.00	12.50	to	15.00
Lily of the Valley	2.00	to	3.50	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	3.00	to	4.00	1.00	to	4.00
Freesias	.....	to	.....	3.00	to	4.00	.....	to	.....
Violets	.75	to	2.00	.40	to	.75	.25	to	1.00
Pansies	.....	to	2.00	.....	to	.....	1.50	to	3.00
Sweet Peas	1.50	to	2.00	.50	to	.75	.50	to	1.00
Gardenias	25.00	to	35.00	.....	to	.....	16.00	to	33.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	17.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	25.00	15.00	to	25.00	35.00	to	50.00

The city is flooded with artificial material and even the Main street merchants are filled with it to the exclusion, largely of growing plants or cut flowers.

CHICAGO Business was comparatively quiet all the week preceding Christmas week and the general air of preparation prevailed the market. There was little unusual to mark the days for even Saturday did not see the usual week-end stir. Some houses are still regarding the possible supply of stock for Christmas week as doubtful in quantity, though, at this writing, Dec. 22, there seems enough to fill orders for the day. What the two following days will bring in the way of cut flowers it is hard to predict, and no good would be gained thereby either. There are very few chrysanthemums, the great bulk of stock being roses and carnations with violets, lily of the valley, lilies, paper whites, cut poinsettia and stevia to help out. In green the demand is very active. Holly is holding firm with nothing extra to be said as to quality and much is very poor. Enormous quantities of mistletoe is in the market and remarkably full of berries. It looks now as if there was more than could be sold. Evergreen held its own at eight and nine dollars per case and is mostly sold out. Christmas trees are not so plentiful as usual, owing to the oversupply last year which left quantities unsold. Wreathing is pretty well sold out.

CINCINNATI The latter part of last week and the first day of this week the buyers took things rather easy. They seemed to be resting on their oars and awaiting developments. Not many of them have placed heavy orders, but are inclined to wait and see what stock comes in in the hope that there will be a break in the market. The prices asked are the usual

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. {1593 / 5893} Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

FRANK MILLANG
Wholesale Florist
55-57 West 26th St., NEW YORK
Shipments, any quantity, Wholesale Market Rates

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4168 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Dec. 20 1913	First Half of Week beginning Dec. 22 Xmas Prices
American Beauty, Special	35.00 to 50.00	50.00 to 60.00
" " Fancy and Extra	20.00 to 30.00	20.00 to 30.00
" " No. 1	10.00 to 15.00	10.00 to 20.00
Killarney, Extra	5.00 to 12.00	12.00 to 20.00
" Ordinary	3.00 to 4.00	4.00 to 8.00
Richmond, Hillingdon, Extra	8.00 to 15.00	30.00 to 50.00
" " Ordinary	3.00 to 4.00	4.00 to 8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	20.00 to 30.00
" " " Ordinary	4.00 to 6.00	6.00 to 12.00
Russell, Shawyer	15.00 to 30.00	20.00 to 40.00
Carnations, Fancy Grade	3.00 to 6.00	6.00 to 12.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1661 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

CENTRALLY LOCATED, THE HUB OF THE FLOWER MARKET SECTION
CHARLES MILLANG
Wholesale Florist
55 & 57 W. 26 St., N. Y.
Telephone 7062 Madison

HENRY M. ROBINSON CO.
OF NEW YORK
Wholesale Florists
Maurice L. Glass, Manager
55-57 WEST 26th ST. NEW YORK CITY
Special Attention to the Shipping Trade

WHOLESALE FLORISTS
A. L. Young & Co.
54 West 28th St. New York
Consignments Solicited

TO GROWERS

Determining the financial responsibility of your consignee is as important as selecting the best flowers to grow. We have the best of references for the ten years we have been in business, from our bankers and our growers, which we will cheerfully furnish upon application.

We desire a few more shippers and if you consign to us we can assure you that we will most conscientiously endeavor to justify whatever confidence may be reposed in us.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
41 West 28th Street, NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 917)

Christmas prices. In some instances they are as high as 200 per cent over the price that ruled for the fortnight previous to Christmas. The season for Yuletide supplies and greens has been one of the best, if not the best, that this market has ever had. Nearly all the ruscus and red immortelles in the market were cleaned up while boxwood sold up to expectations. The florists did not go in for holly as strong as in other years. The early supply came in during the warm weather and when within a fortnight of Christmas the demand for this decorative material become strong, the amount on hand was rather limited and prices soared. Toward the end of last week and the first of this week, heavy shipments came in that brought down the prices in some instances to $4.00 a crate for good stock. White and pink roses are in good supply. Richmonds are very nearly off crop. American Beauties, too, are rather short, but are expected to be in good supply for New Year's. The supply of carnations is, with the exception of red, good.

NEW YORK

When our readers peruse these lines, Christmas will have passed into history, and it will, therefore serve no good purpose to try to tell the outlook or sum up the business prospects for the great holiday. So we shall say very little about it. One thing is evident—there is no lack of fine material in flowers and plants, hence no justification for advancing prices. As compared with previous years American Beauty roses are freely offered in advance at about one-half of established Christmas quotations heretofore and another exceptional condition is the utter demoralization of the violet market. This flower, once so dictatorial, counts for practically nothing in the trade of this city today. The unprecedented extent to which the wearing of artificial corsage flowers is being carried this season is perhaps, partially responsible. The demand for Christmas, naturally, leans strongly to red, and Richmond roses, scarlet carnations, etc., are in the lead, with all white material dragging badly. French trumpet narcissi are already in. Asparagus sprays are suddenly on the scarce side. Daphne odora (at John Young's) is a sterling novelty, for, although a very old favorite because of its sweetness, it is now rarely seen in the market. Roman hyacinths are in quality the best offered in several years and they sell at about double the price of paper white narcissi.

PHILADELPHIA

This is Christmas Monday. Beautiful weather, regular songster-of-the-grovey kind of day. Your correspondent has walked around the wholesale market circles as usual. Said good morning to all the moguls. No answer. Rush by you with their arms out and wild-eyed. Turning down orders. No pointers about state of the market. But you can guess as well as the writer can from the situation described. Plenty of flowers. Prices reasonable. Quality wonderfully good.

ST. LOUIS

The local wholesale markets the last week were able to fill any size order as stock of almost everything was in plenty. The weather has been favorable all week for the production of cut flowers—except California violets. This is a great blow to the violet growers in Kirkwood, where all the local supply come from.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 20 1913	First Half of Week beginning Dec. 22 Xmas Prices
Cattleyas	30.00 to 75.00	40.00 to 75.00
Cypripediums	..... to 12.00	..... to 12.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	..... to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.50 to 3.00
Freesias	..... to	..... to .....
Violets	.25 to .40	.25 to 1.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas	.... to 1.00	1.00 to 2.00
Gardenias	15.00 to 35.00	15.00 to 35.00
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	8.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100	25.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	20.00 to 30.00	25.00 to 35.00

A SILVER WEDDING.

Mr. and Mrs. Chas. Millang of Bayside, L. I., N. Y., celebrated the twenty-fifth anniversary of their wedding on Saturday, Dec. 20. The Bayside grill room and hall were hired for the occasion. The hall was beautifully decorated with Christmas green, cut flowers and palms. The decorations were arranged by Thos. Burns, florist, of Flushing. A fine orchestra was on hand for dancing and a cabaret show in the grill room continued all evening. The Wig Club Minstrels, of which Miss Antoinette Millang is leading lady, gave a reproduction of the performance which they had given in Bayside, L. I., a few days ago. Many prominent people attended and every one enjoyed a good time. Mr. and Mrs. Millang were recipients of many costly pieces of silver from their many friends.

HORTICULTURE is pleased to join in the congratulations and extends wishes that Mr. and Mrs. Millang may arrive in due time at their golden wedding anniversary, at which we shall hope to be present.

W. A. Manda, of South Orange, N. J., sailed on the Mauretania on December 16 for another visit to England to look over his preparations for representation at the Centennial Peace Exposition.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii Largest stock of 2-year transplanted in the United States. All Sizes up to strong 5-ft plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

ANEMONE

Anemone Japonica Strong, field-grown plants in 8 varieties, $3.50 per 100. PALISADES NURSERIES, Sparkill, N. Y.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

ARDISIAS

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers

ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

BAY TREES

McHutchison & Co., New York.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

A. M. Davenport, Watertown, Mass.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

BOILERS—Continued

Lord & Burnham Co., New York City.

Hitchings & Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Horseshoe Brand Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
Jersey-Grown Callas.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

Patten & Co., Tewksbury, Mass.
Princess Dagmar.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
For page see List of Advertisers.

Chicago Carnation Co., Chicago, Ill.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
Carnation, Matchless.
For page see List of Advertisers.

CARNATION STAPLE

Split carnation stems quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Chas. H. Totty, Madison, N. J.

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
For page see List of Advertisers.

Shepard's Garden Carnation Co., 292 Fairmount St., Lowell, Mass.
Chrysanthemum Stock Plants.
For page see List of Advertisers.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
For page see List of Advertisers.

CYCLAMENS

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZEEH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias. 2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

J. W. Keller Co., Inc., Brooklyn and Whitestone, L. I., N. Y.
For page see List of Advertisers.

DETROIT AND MOREHEAD RETURN TRAPS FOR SALE

Robt. Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

DRACAENAS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

FERNS

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Frank Oechslin, Chicago, Ill.
Table Ferns.
For page see List of Advertisers.

For List of Advertisers See Page 895

FERNS—Continued

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Ernest Oechslin, River Forest, Ill.
Ferns for Dishes.
For page see List of Advertisers.

FERTILIZERS

20th Century Plant Food Co., Beverly, Mass.
Fertilene.
For page see List of Advertisers.

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

New York Stable Manure Co., Jersey City, N. J.
Horse Stable Manure.
For page see List of Advertisers.

Consumers' Fertilizer Co., New York City.
Mak-Gro, Odorless Plant Food.
For page see List of Advertisers.

Hudson Caraon Co., Ballston Spa, N. Y.
Davidge's Special Phosphorus.
For page see List of Advertisers.

FLORISTS' LETTERS

Boston Florist Letter Co., Boston, Mass.
For page see List of Advertisers.

American Importing Co., Chicago, Ill.
For page see List of Advertisers.

FLORISTS' SUPPLIES

N. F. McCarthy & Co., Boston, Mass.
For page see List of Advertisers.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

Hilfinger Bros., Ft. Edward, N. Y.
For page see List of Advertisers.

Harry Balsley, Detroit Flower Pot Co., Detroit, Mich.
For page see List of Advertisers.

FUNGINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GALAX

Michigan Cut Flower Co., Detroit, Mich.
For page see List of Advertisers.

Kervan Co., New York.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md
For page see List of Advertisers.

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

50,000 S. A. Nutt, all top cuttings, stock plants grown under glass, well rooted, $10.00 per 1000. Cash. ROSS BROS., Du Bois, Pa.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
For page see List of Advertisers.

Brookland Gardens, Woburn, Mass.
For page see List of Advertisers.

Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

100,000 AMERICA, the queen of the gladioli in its color, ⅜ to ¾ in., $2.75 per 1000 bulblets; 50c., qt.; $2.50, peck.
TACONIC, bright pink striped, deeper shading, line pale yellow, large flower, vigorous grower, fine for florists, ⅜ and ½, $5.00; ¾ to 1, $8.00; 1¼ to 1½, $10.00; 1½ to 1¾, $12.00; 1¾ up, $15.00 per 1000; bulblets, $1.00 per quart. Carefully grown and cured. HOMER F. CHASE, Haverhill Road, Lawrence, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

Bird Steel-frame Greenhouse Co., Inc., New York City.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Frank Van Assche, Jersey City, N. J.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Pierson U-Bar Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York
For page see List of Advertisers.

HART'S HANDY HANDLES

Geo. B. Hart, Rochester, N. Y.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Rob't Ross Jones, Harrisburg, Pa.
For page see List of Advertisers.

Bird Steel-frame Greenhouse Co., Inc., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HELIOTROPES

Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Parshelsky Bros., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HYDRANGEAS

Henry A. Dreer, Inc., Philadelphia, Pa.
New French.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.

The H. A. Stoothoff Co., Mt. Vernon, N. Y.
Aphicide Powder.
For page see List of Advertisers.

JACK FROST MATS

Wm. Elliott & Sons, New York.
For page see List of Advertisers.

JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00 $7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
For page see List of Advertisers.

LILY BULBS

R. M. Ward & Co., New York, N. Y.
Horse Shoe Brand.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Yokohama Nursery Co., Ltd., New York.
Lilium Giganteum and Speciosum Bulbs.
for Forcing
For page see List of Advertisers.

LILY OF THE VALLEY PIPS
August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
Berlin Valley Pips.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Cold Storage.
For page see List of Advertisers.

MARGUERITES
Alonzo J. Bryan, Washington, N. J.
For page see List of Advertisers.

NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

P. Hamilton Goodsell, New York, N. Y.
For page see List of Advertisers.

W. B. Whittier & Co., South Framingham, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Breck-Robinson Nurseries, Boston, Mass.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Forcing Shrubs and Plants.

Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.
For page see List of Advertisers.

50,000 Transplanted Shrubs—Almost given away; prices are so low. In all sizes from lining out stock to specimens. Ask for list. PALISADES NURSERIES, Sparkill, N. Y.

ONION SETS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS
Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass.
For page see List of Advertisers.

PALMS, ETC.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

PALMS, ETC.—Continued
Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

John Scott, Brooklyn, N. Y.
For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Otto Heinecken, New York City.
For page see List of Advertisers.

PEAT
J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX
Phlox—Perennial, Prof. Schleiman, Mrs. Jenkins, Miss Lingard, Indian Chief and others. Strong, 2-year field roots, $3.50 per 100; $30.00 per 1000, mixed, all colors, $2.00 per 100, $15.00 per 1000. PALISADES NURSERIES, Sparkill, N. Y.

PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT AND BULB IMPORTS
August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

Otto Heinecken, New York.
For page see List of Advertisers.

PLANT POTS AND PEDESTALS
Jones, McDuffee & Stratton Co., Boston, Mass.

PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

POTASH
German Kali Works, Inc., New York City.
For page see List of Advertisers.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

POWER AND SPRAY PUMPS
C. J. Jager Co., Boston and Providence.
For page see List of Advertisers.

RAFFIA
McHutchison & Co., New York City.
For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS
United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
For page see List of Advertisers.

John Cook, Baltimore, Md.
New Red Rose, "Francis Scott Key."
For page see List of Advertisers.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Braslan Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York
Boddington's Quality Flower Seeds.
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

T. J. Grey Co., Boston, Mass.
Pansy Seed.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
New Winter-Flowering Sweet Pea List.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 895

SEEDS—Continued

J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., New York City.
For page see List of Advertisers.

J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
For page see List of Advertisers.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."

SNAPDRAGONS

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots, $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
For page see List of Advertisers.

A. T. Boddington, New York City.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Spiraea Clumps.
For page see List of Advertisers.

Burnett Bros., New York City.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
For page see List of Advertisers.

VEGETABLE PLANTS

Warren Shinn, Woodbury, N. J.
Asparagus Roots for Forcing.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

Quaker Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Violets—Strong, field-grown plants, $5.00 per 100. Double Hardy English, Princess of Wales, La France, Gustav Wermig (Summer Violet). PALISADES NURSERIES, Sparkill, N. Y.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
For page see List of Advertisers.

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers

Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
For page see List of Advertisers.

Chicago

Peter Reinberg, 37 Randolph St.
For page see List of Advertisers.

Chicago Carnation Co., 30 E. Randolph St.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
For page see List of Advertisers.

Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
For page see List of Advertisers.

New York

H. E. Froment, 57 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 49 West 28th St., N. Y.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, New York.
For page see List of Advertisers.

Traendly & Schenck, 131 W. 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Badgley, Riedel & Meyer, Inc., New York.
For page see List of Advertisers.

Woodrow & Marketos, 41 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55 W. 26th St.
For page see List of Advertisers.

J. K. Allen, 106 W. 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young, 53 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

Philadelphia

B. S. Slinn, Jr., 55 and 57 West 26th St.
For page see List of Advertisers.

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Philadelphia—Continued

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

A CHRISTMAS GREETING.

M. Rice Co., Philadelphia, Pa.
For page see List of Advertisers.

AZALEAS, FERNS, PALMS.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

BOSTON FERNS.

John McKenzie, North Cambridge, Mass.
For page see List of Advertisers.

FLOWERING AND FOLIAGE PLANTS.

A. Schultheis, College Point, N. Y.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

J. N. Champion & Co., New Haven, Conn.
For page see List of Advertisers.

NEW AND CHOICE FLOWER SEEDS.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

NEW ROSES.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

POTASH.

German Kali Works, Inc., New York City.
For page see List of Advertisers.

ROSE MRS. GEO. SHAWYER.

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

SEASONABLE FLOWER SEEDS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

SWASTIKA BRAND CANNAS.

Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

THE RIGHT SEEDS IN THE RIGHT PLACE.

Albert Dickinson Co., Minneapolis-Chicago.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

WEED EXTERMINATION.

(Dr. G. E. Stone, in Annual Report of Mass. Agri. Exper. Station.)

(Continued from page 885)

The effects of the prevailing winds on plantain seed are often shown in their distribution on lawns. In winter their seed spikes are often found protruding above the snow, and when the snow has a crust the seeds are easily carried long distances, and often land at certain points corresponding with the action of the wind.

Many other weeds, when cut below the surface, will not renew their growth. An asparagus cutter inserted into a handle, is a cheap, practical and easily used tool for cutting roots below the surface.

Frequent applications of fertilizer to lawns is of some service in exterminating weeds. For this reason we have devised a lawn fertilizer spreader, consisting of a holder mounted on rubber-tired wheels, with an opening ¾ of an inch in width which can easily be opened or closed while operating the machine. The spreader is provided with a revolving cylinder which keeps the fertilizer pulverized and in motion. This device was designed to improve upon the clumsier method of hand spreading, and it will spread the fertilizer so evenly and thoroughly that every root can be reached. With its use more fertilizer may be required to completely cover the lawn, but a great deal is gained by the thorough application and even distribution. It is not designed to spread coarse manure, but may be used with pulverized sheep and cow manure and commercial fertilizers.

Besides using pulverized sheep or cow manure in the spring or fall, wood ashes, nitrate of soda, sulfate or muriate of potash may be applied. We have found it well to fertilize in late summer when the grass is losing its vigor, which keeps it growing and in good condition up to the end of the season, and also helps greatly to crowd out undesirable fall weeds.

Weed Seeds in Sheep Manure.

Pulverized sheep and cow manure, while excellent for lawns on account of the large amount of organic matter which they contain, do, like other manures, possess a disadvantage in the undesirable weed seeds often found in them. Most of the pulverized manures comes from the Chicago stock yards, and western seeds are likely to predominate in them. An analysis of pulverized sheep manure shows the following weed seeds in one pound:

Table Showing Number and Kinds of Weed Seeds in One Pound of Pulverized Sheep Manure.

Kind of Seed	Number of Seeds
Ladies' thumb	580
Tumble weed	670
Sorrel	390
Timothy	1,000
Plantain	400
Pigeon and other species	820
Plantago [illegible]	200
Total	4,060

The figures given in this table show the great number of seeds in pulverized sheep manure,—4,060 to 1 pound, which would be equivalent to 406,000 seeds in a 100-pound bag. But this table represents only one analysis, although taken from a typical sample on the market. Some of the seeds named are of little account, while others, like *Plantago lanceolata* and certain *Panicums*, often prove noxious. One lawn with which we have experimented, and to which sheep manure was applied freely, became badly contaminated with *Plantago lanceolata*, which had never been noticed in the lawn before and must have come in with the sheep manure. It was most abundant in the poorest

(Continued on page 926)

Ask the Boy Who Won

how he raised the Blue Ribbon ear.

In Boys' Clubs all over the country the prizes are going to the boy who uses the right fertilizer. That means enough

POTASH



to make a solid, well filled, and perfectly shaped ear.

Use 200 to 500 pounds Kainit per acre to balance either green or stable manure and be sure that the fertilizer you use contains 8 to 10 per cent Potash.

Ask your dealer to carry goods of that grade. If he doesn't we will sell you any amount of Potash, from one 200 lb. bag up, and you can add it yourself.

Don't forget this, for Potash Pays

GERMAN KALI WORKS, Inc.

42 Broadway, New York

Chicago, McCormack Block; New Orleans, Whitney Central Bank Bldg.; Atlanta, Empire Bldg.; San Francisco, 25 California St.; Savannah, Bank & Trust Bldg.

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW



POWER AND SPRAY PUMPS

OF ALL KINDS

A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY

13-15 Custom House Street Boston 33 Canal Street Providence R I

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR INSECTICIDE NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St. Baltimore, Md.

Directions on every package

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

WORTH READING.

Arthur Ruzicka, writing on "Rose Growing Under Glass," in "Horticulture," November 15, 1913, says:

"We have found that a good spray of FUNGINE will do away with all traces of mildew, and if applied in time will kill it so that many leaves will be saved. This fact is mentioned only for the good of the growers, and not to advertise the article, for this is no place for advertisements. We have so far heard of nothing that can compare with FUNGINE and that is why no other preparation is mentioned."

75c. per quart. $2.00 per gallon.

Have you tried NIKOTIANA and compared it with other nicotines for fumigating? If not, it will prove worth your while doing so, both from the point of efficiency and cost.

$1.50 per quart. $4.50 per gallon.

There is nothing "just as good" as APHINE for greenhouse spraying for all sap sucking insects—VERMINE for the soil to destroy eel, wire and cut worms without injury to vegetation—SCALINE for spraying fruit and ornamental trees NOW against San Jose and other scale, red spider and aphis larva.

All up-to-date seed firms and florists' supply houses handle our products.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

CANADIAN AGENTS:
Dupuy & Ferguson, Montreal, Que.
Steele, Briggs Seed Co., Ltd., Toronto, Ont.

BRITISH DISTRIBUTORS:
British and American Fertilizing Co., Liverpool, Eng.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27& 29 OCEAN ST., ∴ BEVERLY, MASS.

In writing to Advertisers kindly mention Horticulture

Bird Steel-Frame Greenhouse Company, Inc.

DESIGNERS AND BUILDERS OF

Greenhouses, Conservatories, Palm Houses and Sun Parlors. Heating Engineers

SPECIALISTS IN BOILER CONSTRUCTION AND HEATING SYSTEMS FOR GREENHOUSES

General Sales Office; 15-17 WEST 38TH STREET, NEW YORK CITY

Cable Address: "STEELHOUSE," N. Y. Telephone 5673 GREELEY

FOR **"POT LUCK"** TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

part of the lawn. In another case where pulverized sheep manure was used plentifully a remarkable catch of a beautiful little lawn grass growing about 4 inches high and known as *Poa annua* was found. The seed of this grass cannot be had in the market, and yet it is one of the most desirable lawn grasses, thriving in the shade where other grasses will not. Whether the sheep manure contained the seed, or whether it merely furnished a suitable environment for its development, as does potash or clover, was not learned.

The large amount of organic matter contained in sheep manure makes it an excellent lawn fertilizer, although from the point of view of plant food contained it is more expensive than most chemical fertilizers. Still, we believe that no chemical fertilizer can take its place on lawns. The number of weed seeds it contains is its worst feature. but this might possibly be overcome by some system of sterilization. The application of steam would have a tendency to increase the ammonification and would be a troublesome process, but if the weed seeds could be killed by an application of formaldehyde and potassium permanganate it would be a practical method. Fumigation with this substance will kill onion seed very quickly, but whether it would have the same effect on weed seeds we do not know.

GREENHOUSES BUILDING OR CONTEMPLATED.

Fresno, Cal.—George C. Roeding, L and Fresno streets, one house.

Frederick, Md.—C. Herman & Son, West South street, range of houses.

Greensboro, Pa.—Greensboro Floral Co., Summit avenue, range of houses.

Nelsonville, Ohio—Gibson & Son, one King house.

Concord, Cal.—MacQuiddy Bros., house 20 x 130.

Baltimore, Md.—Greenmount Cemetery Co., one house.

Los Gatos, Cal.—George M. Tyler, one house.

Glenolden, Philadelphia, Pa.—Emil F. Leiker, range of houses.

Elmhurst, Ill.—Hoskin Floral Co., two houses 25 x 150; one house 27 x 275.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$120.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer, or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

FULL SIZE No 2

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and Export Trade

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST

28th & M Sts. Washington, D. C.

THOSE RED POTS

Ask the Florist That Uses Them

HARRY BALSLEY

Detroit Flower Pot Co., Detroit, Mich.

Mention HORTICULTURE when writing.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.

Richmond, - Ind.

King Greenhouses

Produce Results

Write for Reasons

KING CONSTRUCTION CO.

28 King's Road North Tonawanda, N. Y.

PATENTS

Trademarks and Copyrights

Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



J. H. GREATOREX, Supt.

On the A. C. James Place, at Newport, R. I.

AS good as cameras are these days, it's impossible to convey in a reproduction of this size these carefully laid out and scrupulously kept grounds, so skilfully handled under the direction of J. H. Greatorex, Supt.

Since the photo was taken, we have erected a second parallel house in front of the one shown. The old boiler was extended to heat the new house.

In checking up the greenhouses of Newport recently, we found out that considerably more than half of them had been erected by Hitchings.

Such facts are not only interesting, but convincingly in favor of our construction and business methods.

Some of these very houses are shown in our catalog, which you can have for the asking.

Hitchings and Company

NEW YORK OFFICE
1170 Broadway

Factory, Elizabeth, N. J.

PHILADELPHIA OFFICE
Pennsylvania Bldg., 15th and Chestnut Streets

Order Now!



Kroeschell Bros. Co.
466 W. Erie Street CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

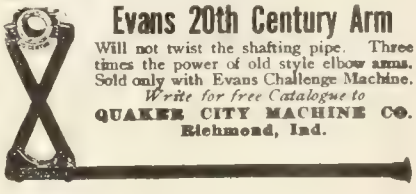
THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

When writing to advertisers kindly mention HORTICULTURE.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

FOR SALE
Good as new, Detroit and Morehead Return Traps, with Receivers, $35.00 spot cash. Write, wire or phone size required.

ROBT. ROSS JONES, Harrisburg, Pa
Mention HORTICULTURE when writing



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO.
Richmond, Ind.

Why It Costs More



IT is not reasonable to think that you can buy an all steel frame for the price of a part steel one.

It is not reasonable to think that we can galvanize the steel frame, and not have it cost more than painting it. Still there's not a bit of doubt but that for a perfect job, galvanizing is the thing.

It is not reasonable that we can give the most particular kind of particular attention to every little particular, and not have to charge more than the "slapped together" kind of jobs.

It's not reasonable that we could equip our houses with benches having complete galvanized steel frames, indestructible slate sides and tile bottoms and not have to charge more than if we "knocked off a few dollars" by giving you a less desirable bench.

It's not reasonable to think that you can buy a $40.00 all wool suit of latest style and best linings for the price of a $25.00 suit.

It's not reasonable to be so unreasonable.

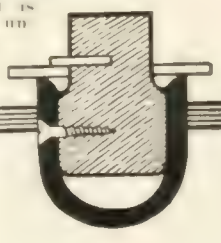
If you want a house superior in every way—a house that is acknowledged to be the highest type of greenhouse construction, and one giving greatest efficiency, then you want the U-Bar.

The U-Bar costs more because it's worth more.

Send for catalog — or send for us — or both.



Palm House at Benjamin Sterns, at Roslyn, Long Island. It is used for a show house—a very happy solution of the usual unattractive palm house interiors.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

3 5185 00256 8861